



# Adams Rite 2018 Catalog



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# RITE Touch® 1050

## Digital Glass Door Lock

The surface-mounted RITE Touch RT1050 digital glass door lock provides flexible, keyless access control for glass doors.

### Function

The RITE Touch RT1050 is a digital door lock that provides keyless access control for glass openings. The RITE Touch offers sophisticated styling, convenience, flexible access control, and safety and security for glass doors. Designed for indoor applications, the easy-to-install surface mounted RITE Touch RT1050 combines elegant aesthetics with the latest touch screen technology, to harmonize style and security.

### Operation

The surface-mounted lock features two options for credential actuation on the secure side of the door: either by entering a user code using the touch-screen or by using provided MIFARE® credential cards. The lock features two modes of unlock from the inside of the door: either with the thumbturn or accessibility lever of the RT1050D or RT1050L respectively, or by using the override button.



### Features

#### Strike

Surface-mounted strike for inactive leaf of paired glass doors provided.

#### Door Thickness

7/16" to 1/2" [11.1 mm to 12.7 mm]  
thick glass doors.

#### Lock Body

Comes in an elegant mirrored finish

#### Front Body

9/16" x 2-7/8" x 7-5/16"  
[14.3 mm x 73.0 mm x 185.7 mm]

#### Back Body

1-15/16" x 3-1/16" x 7-1/2"  
[49.2 mm x 77.8 mm x 190.5 mm]

#### Bolt

Twin bolts measuring 13/32" [10.3 mm] diameter with 1-1/8" [28.6 mm] throw. Bolt Extensions included separately in standard package for larger door gap, including twin bolts with 2-1/8" [54.0 mm] throw.

#### Operating Temperatures

+5 to +130F [-15 to +55C]

Designed for indoor applications only.

#### Standard Package

Individually boxed with mounting plate, AA batteries (x4), credential cards (x4), single door magnet, bolt extensions, thin door plate, and mounting screws.

#### Shipping weight

6 lbs [2.72 kg]

### Electrical

- Battery-operated lock uses four (4) AA alkaline batteries; expected battery life is one (1) year based on ten (10) daily uses
- Programming via touch-screen
- The unit may be programmed for one Master code and one user code
- Supports up to 40 credential cards. Additional cards available separately

### Options

- RT1050D with thumbturn; RT1050L with ADA compliant accessibility lever
- The surface-mounted strike is provided for pair of door applications
- Additional credential cards available separately, RT-5C-1050 pack of five (5) cards

#### Product Note

Indoor applications only

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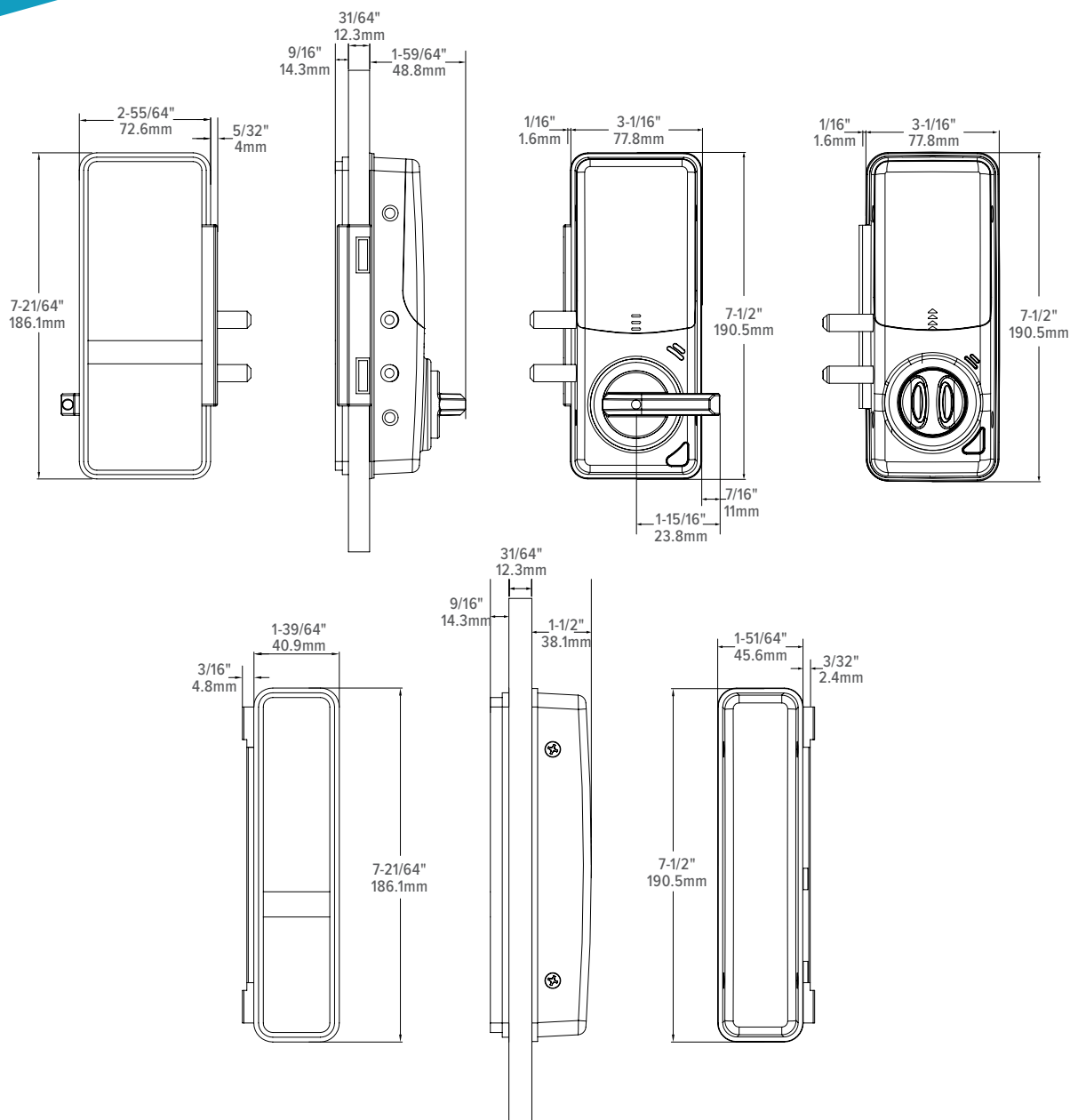
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## Dimensions



## How to Order & Related Products

**RITE Touch RT1050 Digital Glass Door Lock:** Specify quantity and the following information. Order related products separately.

PRODUCT NO.	MODEL	TRIM
RT	1050	D
	1050 For glass doors	D Thumbturn
		L Accessibility Lever

### RELATED

When purchasing this product, please consider the following related products, available separately:

#### ACCESSORIES

Extra credential card 5 pack (RT-5C-1050)

# 1830 Series

## Swing Bolt Bottom Rail Deadlock

1830 Bottom Rail Deadlock provides bottom rail locking in ultra-narrow stile aluminum or tempered glass doors. Tamper-proof with an armored faceplate, it protects with a minimum threshold strike opening.

### Function

For bottom rail locking of ultra-narrow stile or tempered glass doors whose bottom rail (shoe) is too shallow for the MS1861 Bottom Rail Deadbolt. Mechanism is similar to the MS1850S Deadlock, but with the bolt size reduced. This keeps the threshold strike opening to a practical minimum, avoiding collection of debris or snagging on high-heeled shoes. Armored faceplate protects cylinder setscrews from tampering and keeps them from loosening. Not designed for wood door applications.

### Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Height

31/32" [24.6 mm] and 1-1/8" [28.6 mm] only.

#### Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth] where depth varies with cylinder height. Steel with corrosion-resistant plating.

#### Bolt

15/32" x 5/8" x 2-1/8" [11.9 mm x 15.9 mm x 54.0 mm] with 5/8" [15.9 mm] throw. Six-ply laminated steel with eight plies within case. Center ply has alumina-ceramic core to deter hacksaw attack.

#### Strike

See back page for dimensions of strike slot which can be cut in metal thresholds. 4006 Strike, shown, available separately with stainless steel trim plate and plastic box.

#### Standard Package

Individually boxed with mounting screws. Cylinder and/or thumbturn available separately.

#### Shipping weight

1-1/2 lbs [0.68 kg]

### Options

- 4006 Strike, cylinder, thumbturn available separately
- Available in choice of 313 Dark bronze anodized, 628 Clear anodized

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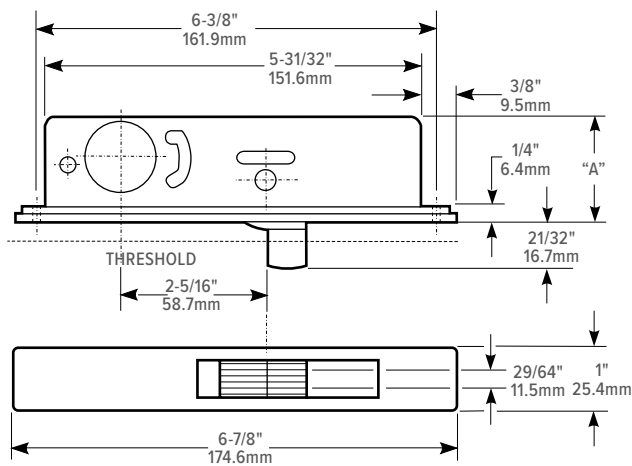
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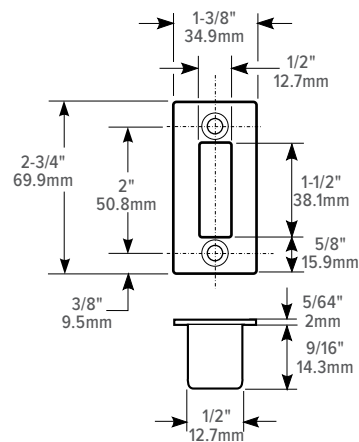
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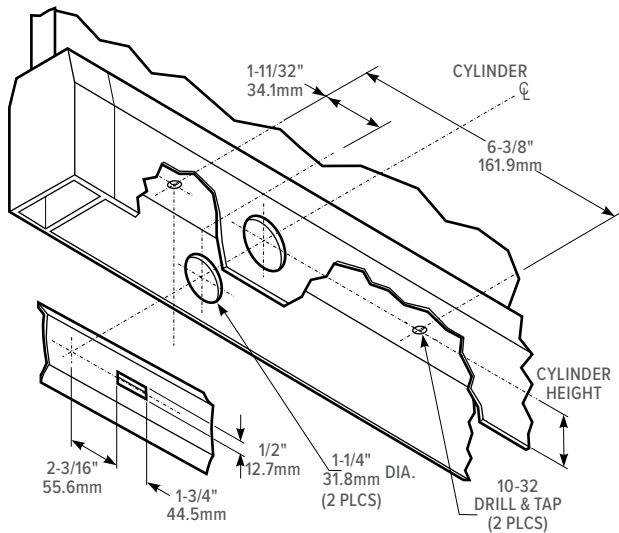
## Dimensions



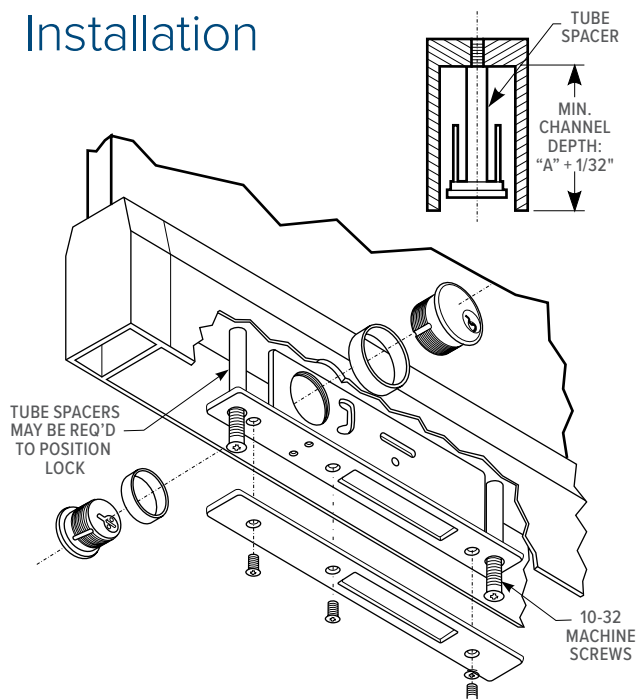
## 4006 Strike Dimensions



## Stile & Threshold Preparation



## Lock & Cylinder Installation



## How to Order & Related Products

**1830 Bottom Rail Deadlock (Swingbolt):** Specify quantity and the following information. Order related products separately.

PRODUCT NO.	DASH NO. (SPECIFY FOR CYLINDER HEIGHT AND LOCK DEPTH)	FINISH
1830	-02	-628
	-02 Cylinder Height 31/32" Dim. "A" 1-5/8"	313 Dark Bronze Anodized
	-03 Cylinder Height 1-1/8" Dim. "A" 1-25/32"	628 Clear Anodized

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS
4006 strike	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard

# MS1837 Series

## MS® Two-Point Deadlock

Maximum security for wood door pairs is provided with the MS1837 Two-Point Deadlock. A single turn drops a bolt into the threshold and pivots the MS bolt.

### Function

Maximum security for wood door pairs is provided by the MS1837 deadlock with a single turn of a key. Simultaneously dropping a stainless steel hexbolt into the threshold and pivoting the massive MS bolt into the opposite leaf, the MS1837 eliminates inconvenient and sometimes forgotten flushbolts in the inactive leaf.

### Operation

360° turn of key or thumbturn projects counterbalanced bolt into opposite door and drops bolt into threshold. Key can be removed only when bolts are in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



Concealed vertical rod not shown



### Features

#### Cylinder Backset

1-1/2" [38.1 mm] only.

#### Cylinder Height

36" [914.4 mm] standard. Other cylinder heights available on special order, specify exact height from bottom of door to cylinder center. Maximum cylinder height 65" [1651 mm].

#### Case

Measures 1" x 6" x 2-3/16"  
[25.4 mm x 152.4 mm x 55.6 mm].  
Steel with corrosion-resistant plate.

#### Pivoted Bolt

5/8" x 1-3/4" x 2-7/8" [15.9 mm x 44.5 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw. Eight-ply laminated steel with alumina-ceramic core to deter hacksaw attack.

#### Threshold Bolt

Hexagonal 3/8" [9.5 mm], flat to flat. Stainless steel.

#### Armored Faceplate

Flat, two-piece plate extends to bottom of door.

#### Strike

For MS bolt, a 4001-011 Strike Plate with dust box is furnished. Threshold bolt strike can be 1/2" [12.7 mm] diameter hole in metal threshold or, if threshold is wood, 4005 Strike is available separately.

#### Standard Package

MS lock individually boxed with mounting screws. Hexbolt and rod packed separately with face extension plate, screws, bottom bolt guide, and attachment pin. Cylinder and/or thumbturn available separately.

#### Shipping weight

3 lbs [1.36 kg]

### Options

- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized, US3 (605) Bright brass, US26D (626) Satin chrome

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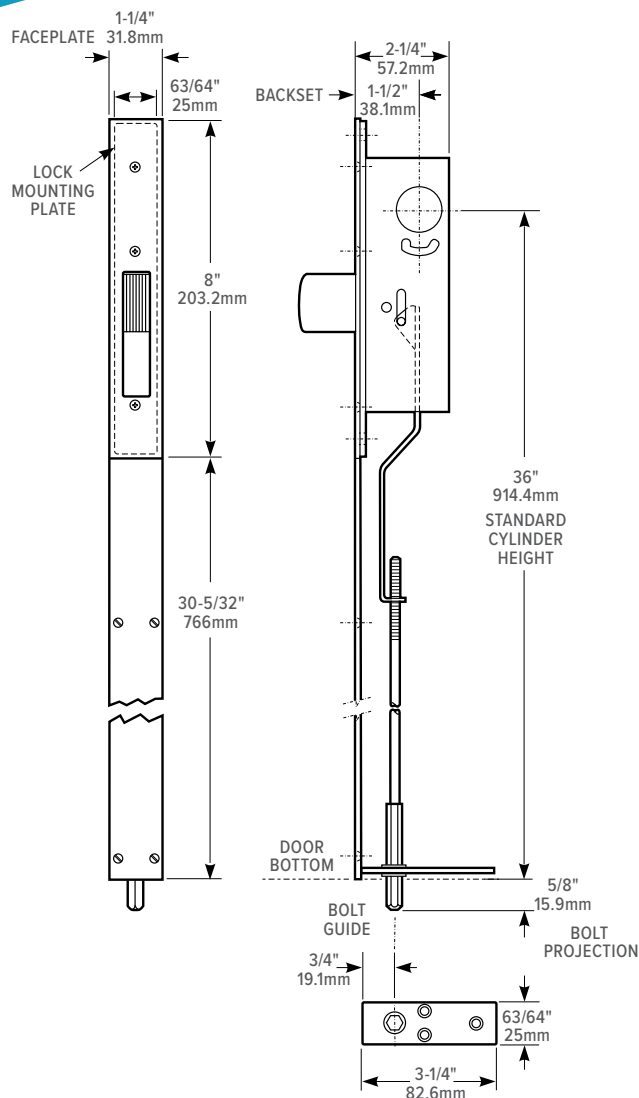
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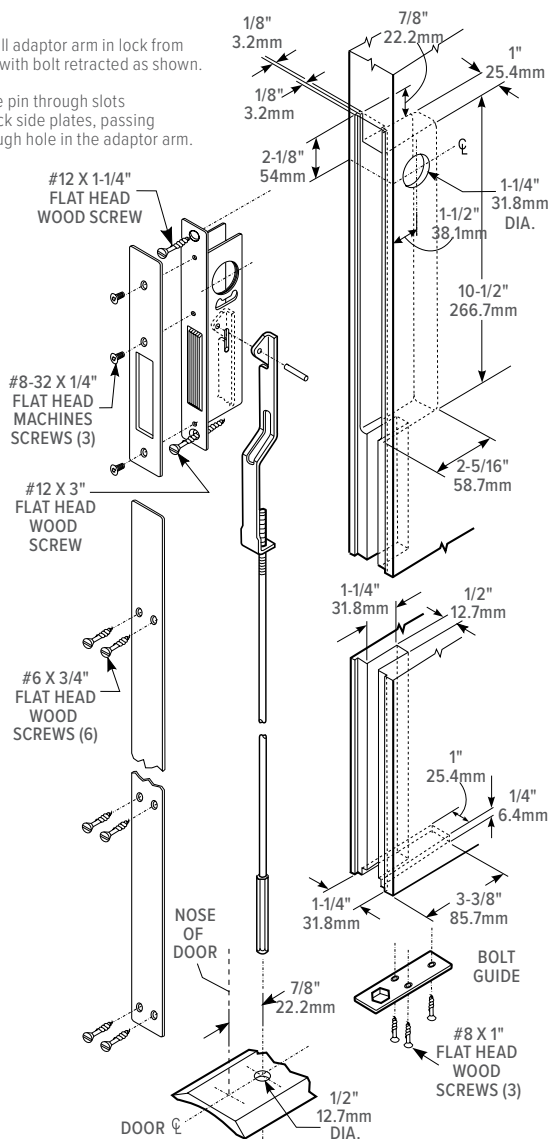
## Dimensions



## Installation

Install adaptor arm in lock from rear with bolt retracted as shown.

Drive pin through slots in lock side plates, passing through hole in the adaptor arm.



## How to Order & Related Products

**MS1837 Two Point Deadlock** Specify quantity and the following information. Order related products separately.

PRODUCT NO.	FACEPLATE
MS1837	-313
	313 Dark Bronze Anodized
	335 Black Anodized
	605 Bright Brass
	626 Satin Chrome
	628 Clear Anodized

If cylinder height other than 36" is required, specify exact height from bottom of door to cylinder center.

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS
4005 Strike for wooden threshold	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn

# MS1847 Series

## MS® Deadlock/Deadlatch

The MS1847 Deadlock/Latch for ultra-narrow stile aluminum sliding doors features a self-protecting bolt with adjustable bolt projection.

### Function

A compact lock designed to fit within very narrow sliding door stiles without compromising the high degree of security that these doors need. The sturdy stainless steel bolt has two important features not usually found in sliding door hardware. First, it is adjustable: a full 3/16" [4.8 mm] lengthening or shortening of bolt projection is possible by turning an exposed screw in the face of the lock. This can compensate for considerable misalignment between door and jamb. Second, the bolt is self-protecting: if the door is closed with the bolt in the locked position, the bolt will retract immediately upon contact with the jamb, thus preventing damage or accidental lockout.

### Operation

Cylinder pulls are available separately for keyed operation. Three hub slot positions allow installation even where jamb and stile design provides severely limited turn clearance.



## Features

### Case

Measures 1/2" x 3-3/16" x 1-1/8" [12.7 mm x 80.97 mm x 28.6 mm]. Stainless steel.

### Bolt

Three-ply laminated stainless steel. Designed to withstand approximately one-half ton of either horizontal or vertical force. Anti-lift bolt stops both door-from-jamb pry bar attacks and attempts to lift the door from its track.

### Faceplate

Rectangular face or full radiused ends (see how-to-order table on back of page for dash numbers).

### Latch Version

The MS1847-11 and MS1847-13 feature the same stainless steel hookbolt, but the bolt is spring-loaded for automatic latching. All dimensions and available accessories for the MS1847 Deadlocks also apply to MS1847 Deadlatches.

### Standard Package

Case-packed with mounting screws. Turn and cylinder pull available separately.

### Shipping weight

1/2 lb [0.23 kg].

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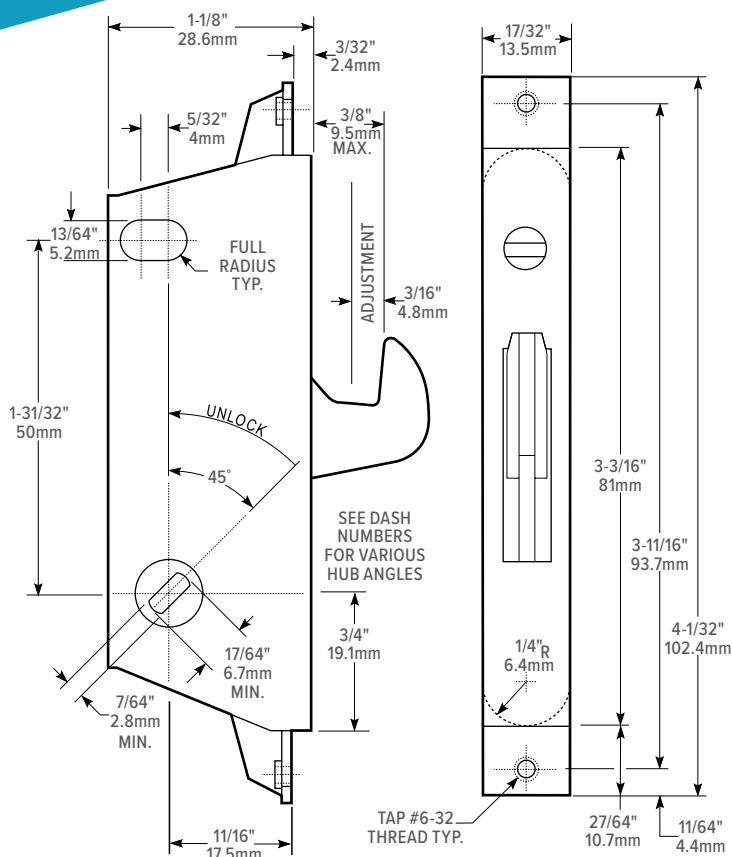
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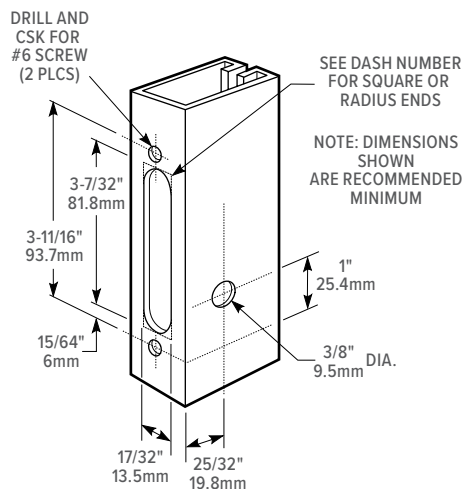
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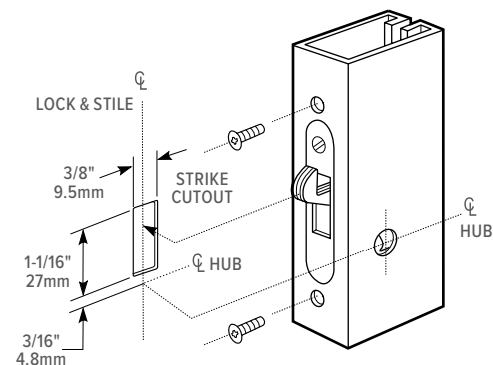
## Dimensions



## Stile Preparation

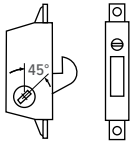
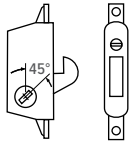
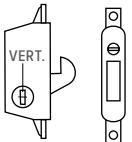
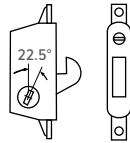
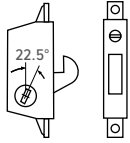
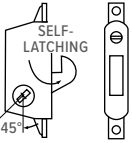



## Installation



## How to Order & Related Products

**MS1847 Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	FACE SHAPE, HUB ANGLE, LOCK OR LATCH			BACKSET
MS1847	-02			-630
	 (Blank) Lock	 -02 Lock	 -06 Lock	630 Satin Stainless
	 -09 Lock	 -10 Lock	 -11 Latch	
	 -13 Latch			

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM
4800 Strike	4024, 4025, 4026 Cylinder Pulls	1000 Series Turn

# MS1850S, MS1850S-X5X

## Series MS® Deadlocks

The **MS1850S Series MS® Deadlock** utilizes a laminated stainless steel bolt to provide maximum security for a single leaf narrow stile aluminum door. The **MS1850S-X5X Series MS® Deadlock** utilizes a laminated stainless steel hookbolt to provide maximum security for a sliding narrow stile aluminum door. Both are activated by a pivot mechanism.

### Function

A huge bolt of laminated stainless steel, nearly 3" long, activated by an uncomplicated pivot mechanism, has made the basic **MS1850S Series MS® Deadlock** the standard of the narrow stile aluminum door industry. The length of this bolt provides maximum security for a single leaf door, even a very tall and flexible one or an installation where the gap between the door and jamb is greater than it should be.

The **MS1850S-X5X Series MS® Deadlock** answers the security need of sliding narrow stile aluminum doors in commercial, industrial, and institutional buildings. The locking mechanism is identical to the MS1850S Series MS Deadlock, except that the massive laminated bolt is provided in a hook shape to resist the parting motion of sliding door and jamb. The over-center maximum security (MS) locking action assures that forced entry attempts to pry the door in any direction, up, down, or sideways will be defeated.

**Special configuration:** The **1850S-X2X Series Short Throw Deadlock** utilizes a laminated stainless steel short bolt, activated by a pivot mechanism to secure a single leaf narrow stile aluminum door.

### Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



MS1850S



MS1850S-X5X



Aluminum



Swinging Door



Sliding Door

MS1850S-X5X only

## Features

### Backset

7/8" [22.2 mm], 31/32" [24.6 mm], 1-1/8" [28.6 mm], and 1-1/2" [38.1 mm]. 1850S-X2X not available with 7/8" backset.

### Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth], depth varies by backset (see table on left). Steel with corrosion-resistant plating.

### Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm].

### Strike

See below for dimensions of strike slot which can be cut in metal jamb. Trim plate, box strike, and armored strike are available separately.

### Bolt

Eight-ply laminated stainless steel. Center ply has alumina-ceramic core to defeat any hacksaw attack, including rod-type "super" hacksaws.

**MS1850S:** Standard straight bolt measures 5/8" x 1-3/8" x 2-7/8" [15.9 mm x 34.9 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw.

**MS1850S-X5X:** Hookbolt measures 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.6 mm] throw. Hook shaped bolt repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

**1850S-X2X:** Short bolt measures 5/8" x 1-3/8" x 2-3/8" [15.9 mm x 34.9 mm x 60.3 mm] with 13/16" [20.6 mm] throw.

### Standard Package

Individually boxed with faceplate and mounting screws. Strike plates, cylinders and/or thumbturns available separately.

### Shipping Weight

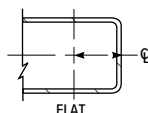
1-1/2 lbs [0.68 kg].

## Options

- "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". This lock is handed and must be specified LH or RH. Specify SCH1850S or SCH1850S-X5X Series. Same faceplate and backset options as MS1850S and MS1850S-X5X Series.

### HOW BACKSET IS MEASURED:

#### CYLINDER

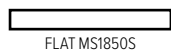


FLAT

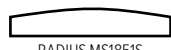
RADIUS

BEVEL

### ARMORED FACEPLATE 1" X 6-7/8"



FLAT MS1850S



RADIUS MS1851S

RADIUS W/ WEATHERSTRIP  
MS1851SW

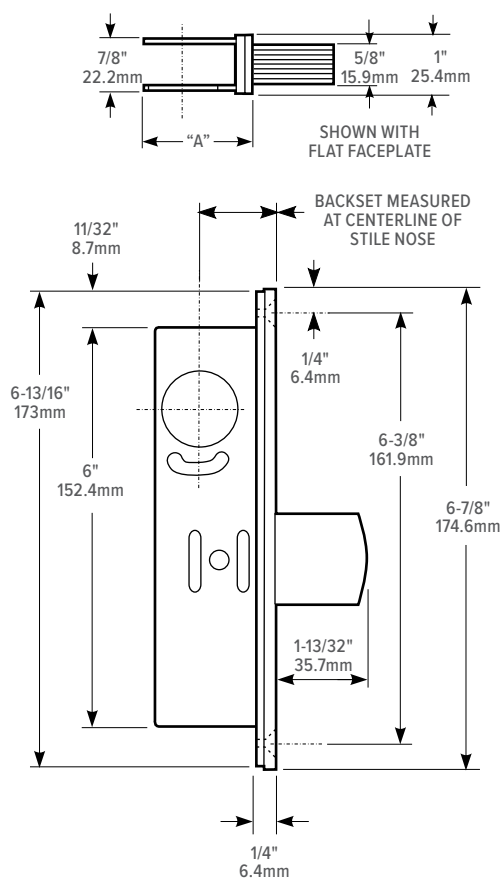
LH BEVEL MS1852S-X15



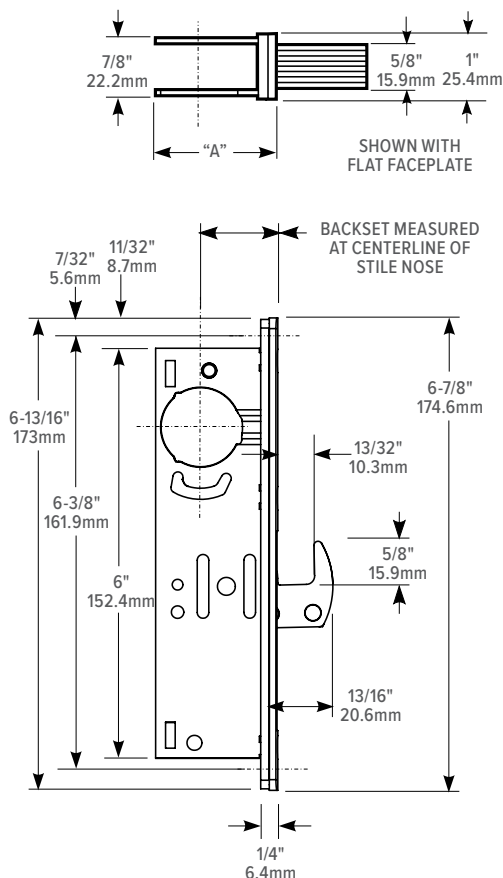
RH BEVEL MS1852S-X16

BACKSET	"A"
7/8" 22mm	1-9/16" 34.7mm
31/32" 24.6mm	1-5/8" 41.3mm
1-1/8" 28.6mm	1-25/32" 45.2mm
1-1/2" 38.1mm	2-1/4" 57.2mm

## MS1850S Dimensions

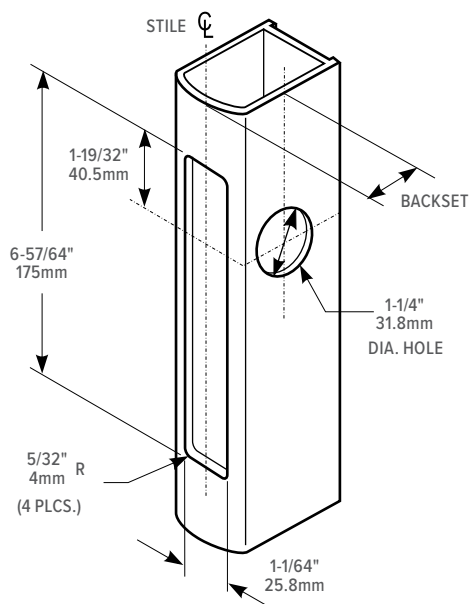


## MS1850S-X5X Dimensions

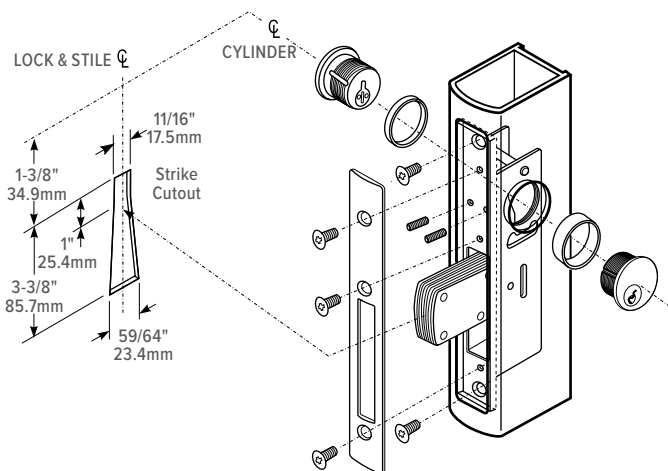




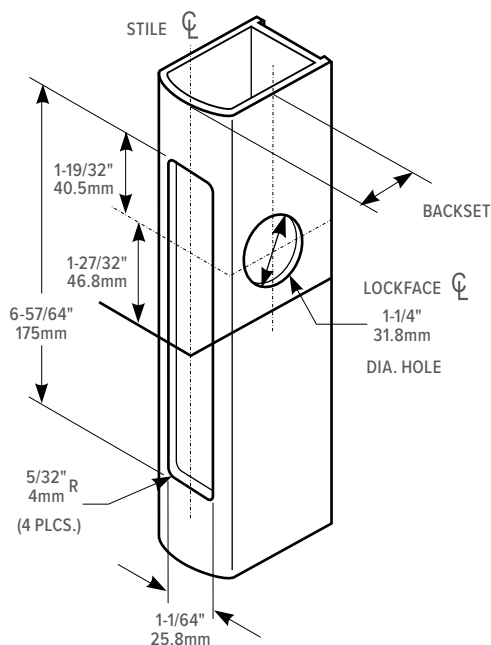
## MS1850S Stile Preparation



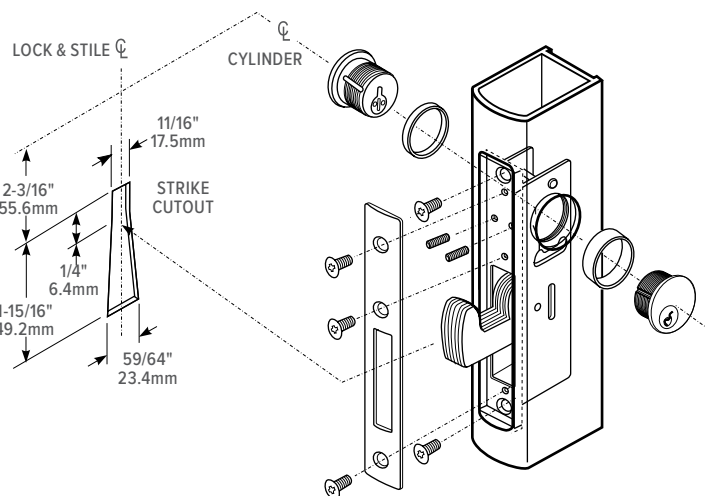
## Lock & Cylinder Installation



## MS1850S-X5X Stile Preparation



## Lock & Cylinder Installation



## How to Order & Related Products

**MS1850S, MS1850S-X5X Series MS® Deadlock:** Specify quantity and the following information. Order related products separately.

PRODUCT NO.	FACEPLATE	BACKSET	BOLT SHAPE	HANDING	FINISH
MS185	OS	-2	1	0	-628
	0S Flat	1 7/8"	1 Straight bolt	0 Non-Handed*	313 Dark Bronze Anodized
	1S Radius	2 31/32"	5 Hookbolt	5 LH or RHR	335 Black Anodized
	1SW Radius with weatherstrip	3 1-1/8"		6 RH or LHR	628 Clear Anodized
	2S Bevel	4 1-1/2"			
	3S Without faceplate, without strike plate				

\*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only.

**1850S-X2X Series Short Throw Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	BOLT SHAPE	HANDING	FINISH
185	OS	-2	2	0	-628
	0S Flat	2 31/32"	2 Short Throw	0 Non-Handed*	313 Dark Bronze Anodized
	1S Radius	3 1-1/8"		5 LH or RHR	335 Black Anodized
	2S Bevel	4 1-1/2"		6 RH or LHR	628 Clear Anodized
	3S Without faceplate, without strike plate				

\*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only.

### RELATED — MS1850S & MS1850S-X5X

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	SPECIAL ORDER OPTIONS
4015 Threshold Bolt, 4016 Header Bolt for multi-point locking. 4085 Header Bolt for pairs of doors 4000, 4001, MS4002 Deadlock Strikes Lock mounting accessories and options	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard	3090, 3090P, 3090C, A100 Series Keyless Entry, 4550 Deadlock Lever 4089 Exit Indicator	Schoolhouse function available as special order.

# MS1850SN, MS1850SN-45X

## Series MS® Deadlocks

The ANSI size **MS1850SN Series MS® Deadlock** utilizes a laminated stainless steel bolt and the ANSI size **MS1850SN-45X Series MS Deadlock** utilizes a stainless steel hookbolt, both activated by a pivot mechanism to provide maximum security for hollow metal or wood doors.

### Function

For hollow metal or wood doors prepared for hardware according to the specifications of the American National Standards Institute (ANSI), the **MS1850SN Series MS® Deadlock** provides maximum security and ease of installation. Its standard 1-1/2" [38.1 mm] backset dimension provides adequate clearance for the deep stop on the door jamb of hollow metal entrances.

The ANSI size **MS1850SN-45X Series MS® Deadlock** provides maximum security and ease of installation for hollow metal or wood sliding doors. Its standard 1-1/2" [38.1 mm] backset dimension provides adequate clearance for the deep jamb "pocket" of many commercial and industrial entrances. The locking mechanism is identical to the widely used MS1850S Series MS Deadlock, except that the massive laminated bolt is provided in a hook shape to resist the parting motion of sliding door and jamb. The over-center maximum security (MS) locking action assures that forced entry attempts to pry the door in any direction, up, down, or sideways will be defeated. Also useful for swinging doors closing against jambs too shallow for the 1-3/8" [34.9 mm] throw of the MS1850SN Series MS® Deadlock.

### Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



MS1850SN



MS1850SN-45X



MS1850SN  
-450 only

## Features

1-1/2" [38.1 mm] available only

Measures 1" x 6" x 2-1/4" [25.4 mm x 152.4 mm x 57.2 mm]. Steel with corrosion-resistant plating.

Eight-ply laminated stainless steel.  
Center ply has alumina-ceramic core to  
defeat any hacksaw attack, including  
rod-type "super" hacksaws.

**MS1850SN:** Standard straight bolt measures 5/8" x 1-3/8" x 2-7/8" [15.9 mm x 34.9 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw.

**MS1850SN-45X:** Hookbolt measures 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.6 mm] throw. Hook shape repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

Measures 1-1/4" x 8" [31.8 mm x 203.2 mm].

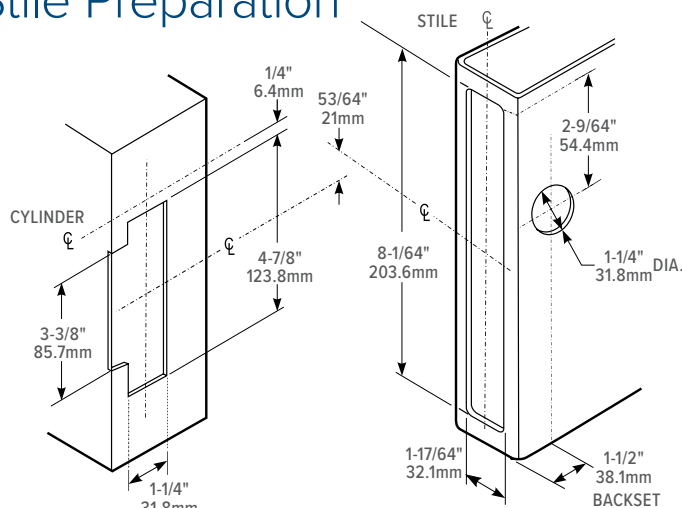
See below for dimensions of strike slot which can be cut in metal jamb. Lipped, ANSI-spec, and other strike plates available separately.

Individually boxed with faceplate and mounting screws. Strike plates, cylinders and/or thumbturns available separately.

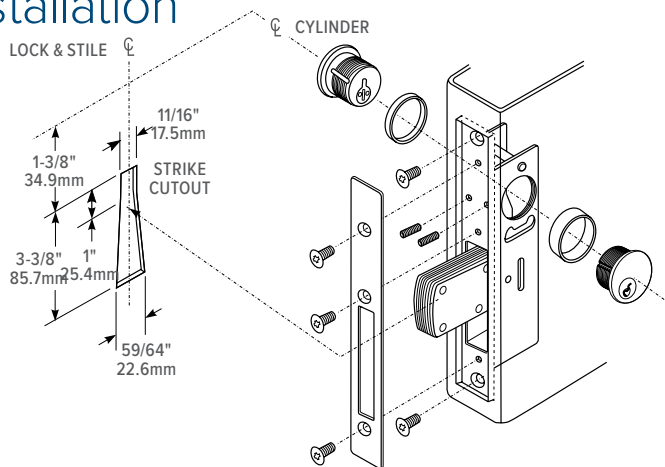
1-1/2 lbs [0.68 kg].

## Options

- “SCHOOLHOUSE” version, also available, is modified so that operation from inside is “unlock only”. This lock is handed and must be specified LH or RH. Specify SCH1850SN or SCH1850SN-450 Series. Same faceplate and backset options as MS1850SN or MS1850SN-450 Series.

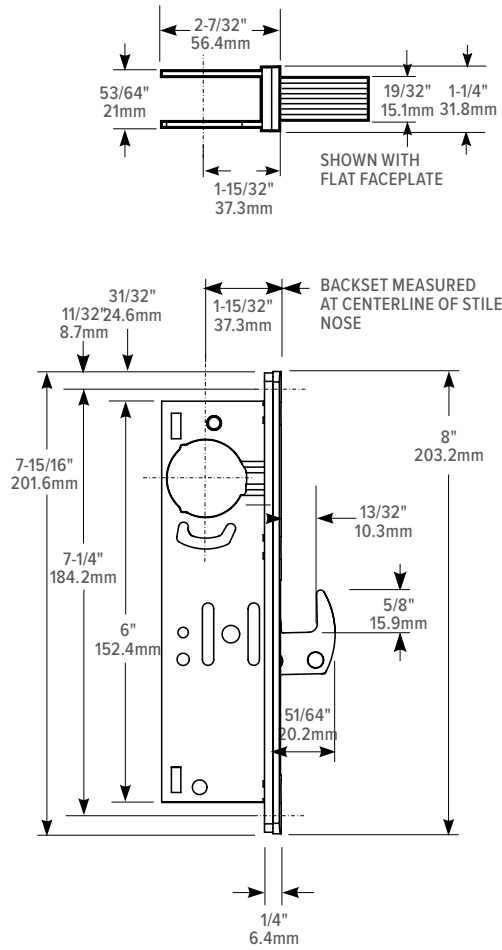


## Lock & Cylinder Installation

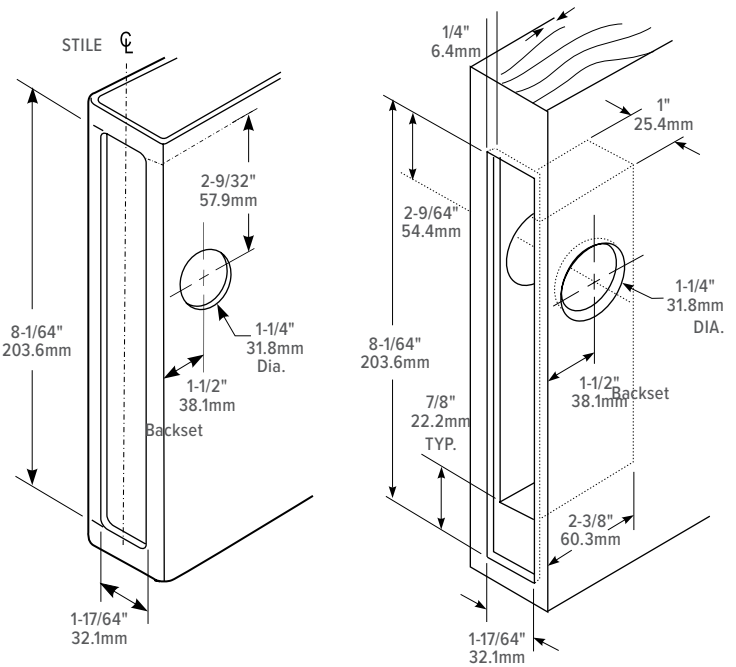


# MS1850S-45X

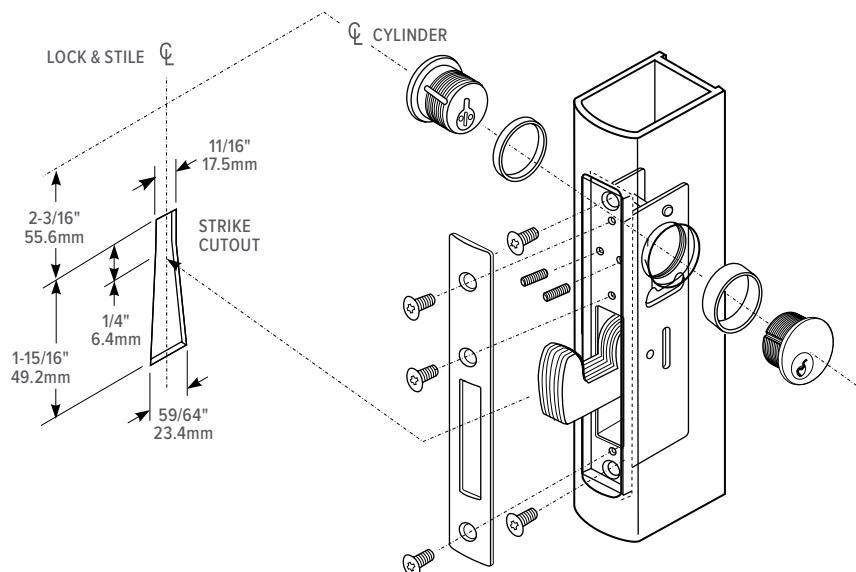
## Dimensions



## Stile & Wood Preparation



## Lock & Cylinder Installation





## How to Order & Related Products

**MS1850SN, MS1850SN-45X Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	ANSI SIZE	BOLT SHAPE	HANDING	FINISH
MS185	0	SN	-41	0	628
	0 Flat		41 Straight bolt	0 Non-Handed*	313 Dark Bronze Anodized
	1 Radius		45 Hookbolt	5 LH or RHR	335 Black Anodized
	2 Bevel			6 RH or LHR	628 Clear Anodized

\*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only.

### RELATED – MS1850SN & MS1850SN-45X

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	SPECIAL ORDER OPTIONS
4015 Threshold Bolt, 4016 Header Bolt for multi-point locking. 4085 Header Bolt for pairs of doors 4000, 4001, MS4002 Deadlock Strikes Lock mounting accessories and options	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard	3090, 3090P, 3090C, A100 Series Keyless Entry, 4550 Deadlock Lever 4089 Exit Indicator	Schoolhouse function available as special order.

# MS1861 Series

## MS® Bottom Rail Deadbolt

MS1861 Bottom Rail Deadbolt provides maximum security with MS deadbolt locking mechanism. It utilizes hardened steel bolts for the limited space of ultra-narrow stile doors.

### Function

The MS1861 lies horizontally in the bottom rail of ultra-narrow stile doors which have insufficient vertical space for a lock, or tempered glass doors which have no stile at all. The hardened steel cylindrical bolts allow simple drilled strike holes of a relatively small size to minimize the nuisance and danger presented by some threshold strikes in collecting debris or snagging on high-heeled shoes. MS1861-02 locks either single-leaf or pairs of doors. Not recommended for wood doors.

### Operation

360° turn of key or thumbturn projects or retracts bolt(s). Key can be removed only when bolts are in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

Minimum backset is approximately 2-1/4" [57.2 mm] for the MS1861-01 configuration with vertical bolt only. The MS1861-02 configuration with both vertical and horizontal bolts requires placement of cylinder center line 5-3/4" [146.1 mm] from nose of door. Both have cylinder center 1-7/8" [47.6 mm] above bottom edge of door.

#### Case

Measures 1" x 6" x 1-13/16" [25.4 mm x 152.4 mm x 46.0 mm]. Steel with corrosion-resistant plating.

#### Bolt

3/8" [9.5 mm] diameter. Stainless steel vertical threshold bolt has 13/16" [20.6 mm] throw. Hardened steel horizontal bolt has 1-1/8" [28.6 mm] throw.

#### Strike

In metal installation, 7/16" [11.1 mm] drilled holes in threshold are required. For MS1861-02 configuration with both vertical and horizontal bolts, drilled holes are also required in jamb or opposite door.

#### Standard Package

Individually boxed with mounting screws. Cylinder and/or thumbturn available separately. If required, tube spacers are available separately.

#### Shipping weight

MS1861-01: 1-3/4 lbs [0.79 kg],  
MS1861-02: 2 lbs [0.91 kg]

### Options

- Vertical bolt only (-01)
- Vertical and horizontal bolts (-02)

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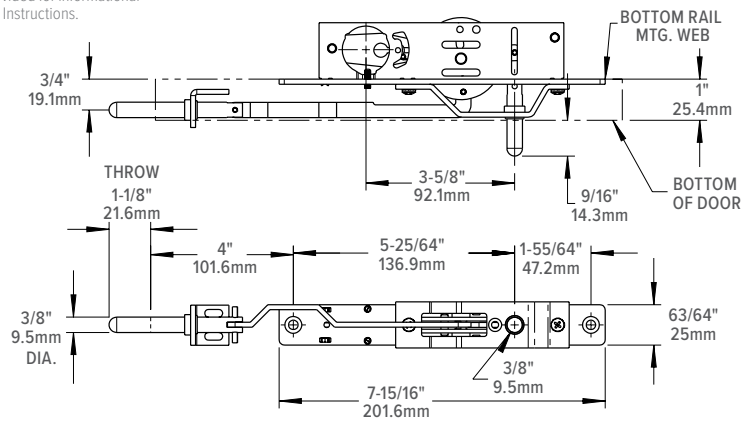
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## Dimensions

Unit illustrated is MS1861-02. (Both horizontal & vertical bolts included.) Part number for vertical bolt operation only is MS1861-01. Conversion Kit no.

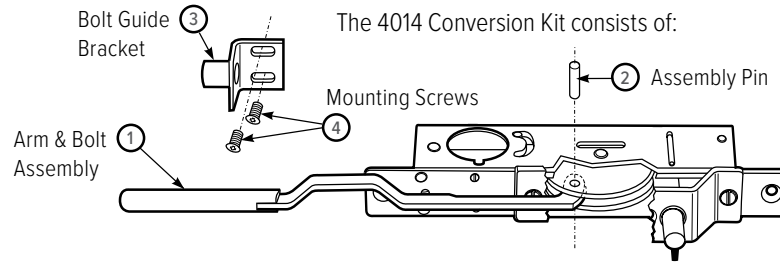
4014 available to convert MS1861-01 to MS1861-02.



## 4014 Conversion Kit

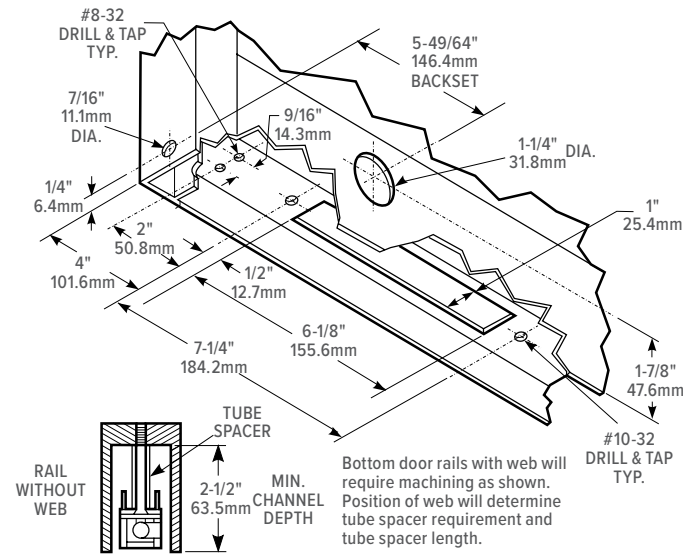
To convert MS1861-01 to MS1861-02, 4014 Conversion Kit provides horizontal bolt assembly with guide and attachment fittings.

To assemble, press pin through disc and arm.

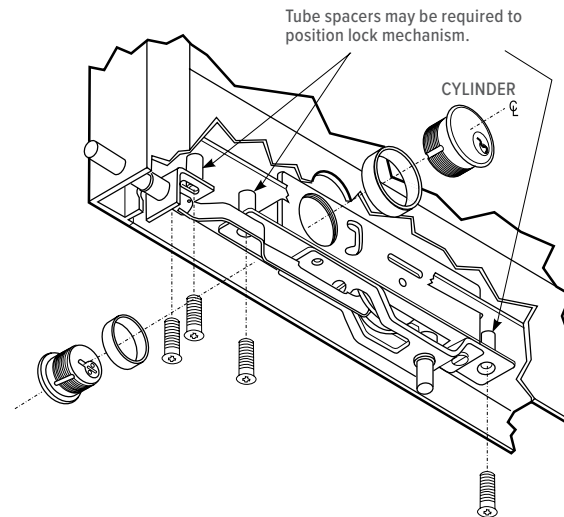


The 4014 Conversion Kit consists of:

## Rail Preparation



## Lock & Cylinder Installation



## How to Order & Related Products

**MS1861 Series MS® Bottom Rail Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	BOLT OPERATION	FINISH	PACKAGING
MS1861	-01	-603	-IB
	01 Vertical Bolt Only	603 Zinc plated steel	IB Individually Boxed
	02 Vertical and Horizontal Bolts		

If tube spacers are required, specify QUANTITY and LENGTH..

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS
4014 Conversion Kit for multi-point locking. 1861 may be ordered with vertical and horizontal bolts (Bolt Operation option 2). Tube spacers (26-00090XX)"	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn

## 1875

## Two-Point Deadlock

1875 Two-Point Deadlock provides security for roll-up doors, security screens, or similar doors. Two-point locking is achieved using two bolts, which are operational from either or both sides of the deadlock.

## Function

For overhead doors, roll-up security screens, or similar doors. Provides turn operation of two bolts from either or both sides. Accepts standard mortise cylinders for key control of bolts to secure them in either projected or retracted position.

## Operation

90° rotation of turn projects or retracts bolts. 360° turn of key deadlocks mechanism, preventing operation of the turn in either locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



## Features

**Cylinder Backset**

Bolt arms require inside stile clearance of 1-11/16" [42.9 mm] on one side of cylinder center, 1" [25.4 mm] on the other.

**Case**

Measures 1" x 6" x 2-5/8" [25.4 mm x 152.4 mm x 66.7 mm]. Steel with corrosion-resistant plating.

**Bolt Arms**

1-1/32" [26.2 mm] throw. Threaded for 1/4" – 20 rods. Because of design variations in this type of door, no standard bolt can be offered to fit all makes of doors. Please contact factory for more information on bolts, rods, bolt guides, and strikes to fit individual door designs.

**Turn**

**4060 Turn:** Available separately. Zinc alloy escutcheon and handle. Available in 130 to match 628 Clear Anodized finish. Steel spindle is also available to accommodate various door thicknesses.

**Standard Package**

Individually boxed. Cylinder and/or thumbturn available separately.

**Shipping weight**

1-1/2 lbs [0.68 kg]

## Options

- 4060 Turn available separately with choice of spindle lengths
- Bolt, connecting rod, bolt guide, strike available separately by special order

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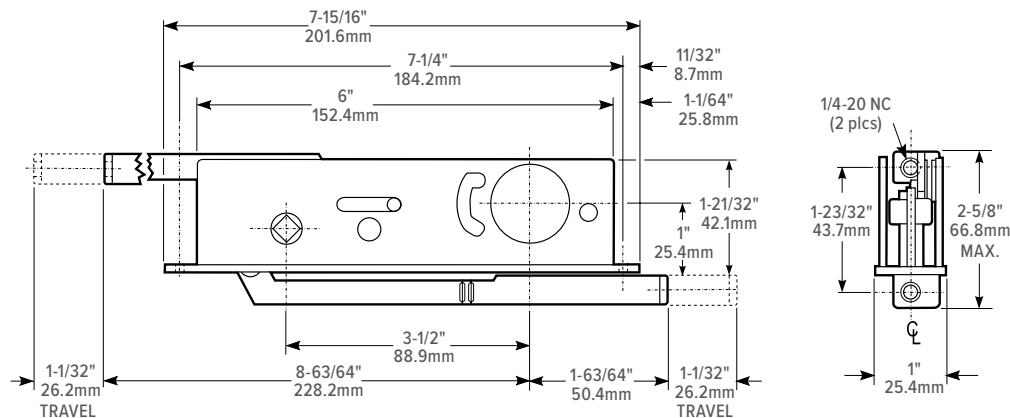
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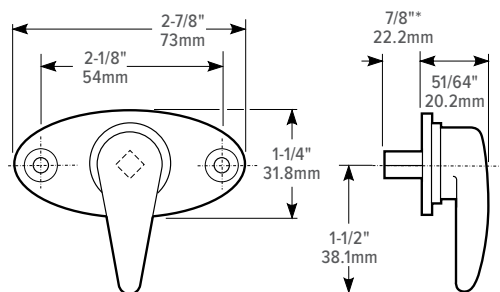
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## Dimensions

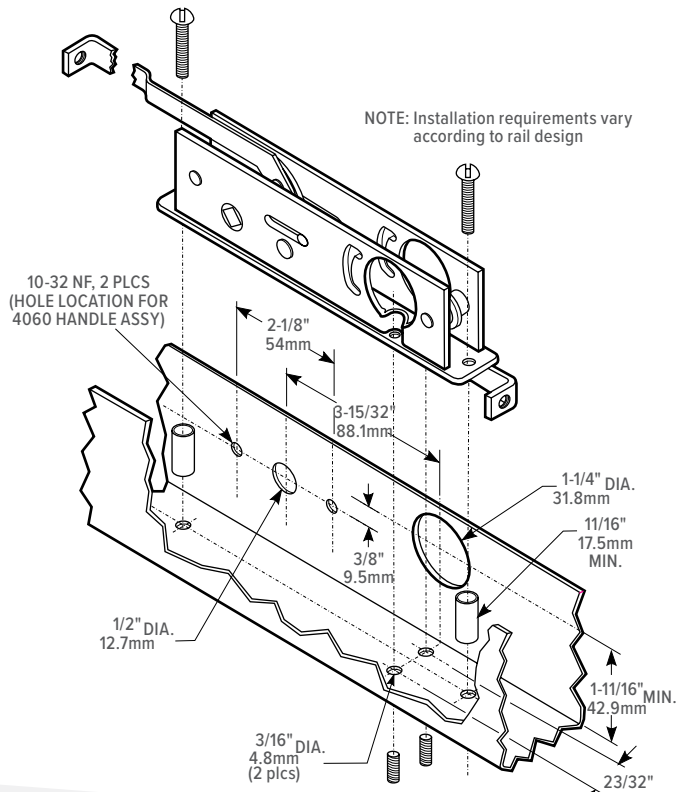


## 4060 Turn



\*FOR 1-3/4" THICK DOOR

## Installation



## How to Order & Related Products

**1875 Two Point Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	PACKAGING
1875	-IB
	IB Individually Boxed

**4060 Turn:** Specify quantity and the following information. Order related products separately.

MODEL	DOOR THICKNESS	FINISH
4060	-05	-130
	05 1-1/2"	130 To match 628 Clear Anodized
	06 1-3/4"	
	07 2"	

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	SPECIAL ORDER OPTIONS
4060 Turn	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	31-0278-XX Bolt and Connecting Rod Assembly by special order only.



# MS+1890 Series

## MS® Deadlock/Deadlatch

MS+1890 Series MS Deadlock/Deadlatch provides a maximum security deadlock for after hour and traffic control with deadlatch convenience during business hours.

### Function

Maximum security MS+ deadlock after hours, plus the convenience of traffic control management during the business day. Typical installation is a bank or store requiring three modes of door control: 1. Both lock and latchbolts retracted for unrestricted entry and exit during business hours 2. Handle-operated latch for exit-only traffic just after closing 3. Maximum security MS hookbolt for overnight lockup. When using trim (available separately) to activate, handle or paddle operates latchbolt only.

### Operation

360° turn of key or thumbturn projects or retracts the hookbolt. 120° further turn retracts latchbolt as well. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides. When using trim (available separately) to activate, handle retracts spring-loaded latchbolt only. For door thickness other than 1-3/4", please contact factory.



### Features

#### Cylinder Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" [38.1 mm].

#### Case

Measures 1" x 7-3/8" x depth [25.4 mm x 187.3 mm x depth], depth varies by backset (see table on back of page). Steel with corrosion-resistant plating.

#### Bolt

**DEADLOCK BOLT:** 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.6 mm] throw. Eight-ply laminated stainless steel. Center ply has alumina-ceramic core to defeat any hacksaw attack, including rod-type "super" hacksaws, while hook shape repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

**LATCHBOLT:** Measures 5/8" x 5/8" [15.9 mm x 15.9 mm] with 7/16" [11.1 mm] throw.

Zinc alloy with Delrin face for smooth, quiet action. Handling easily reversible. Bolt can be held fully retracted to allow door to be free swinging (see illustration on back of page).

#### Strike

Armored strike with satin stainless steel trimplate with steel mounting plate and dust box. Flat strike furnished. Also available for pairs of doors in radius shape, or flat with square corners for ANSI hollow metal jambs. Flat strikes also available with longer lip. MS+1890 Deadlock/Latch cannot be used with electric strikes.

#### Standard Package

Individually boxed with strike and machine screws for mounting. Cylinder and/or thumbturn available separately.

#### Shipping weight

2 lbs [.91 kg]

### Options

- Handle, paddle available separately for one side only or both sides. Handles, paddles on both sides solve, with minimum traffic impediment, the problem of doors that stand ajar due to wind or air-conditioning pressures.
- Available in right hand or left hand configurations
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized

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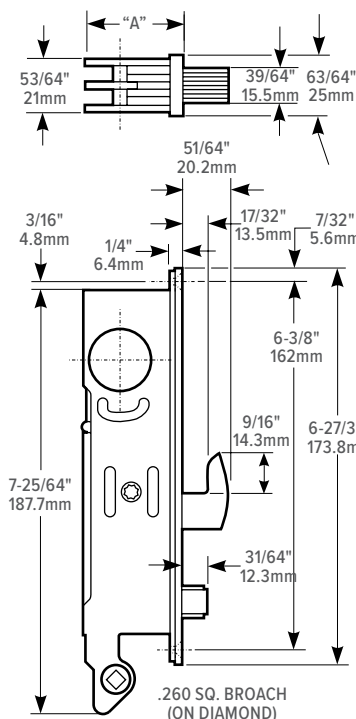
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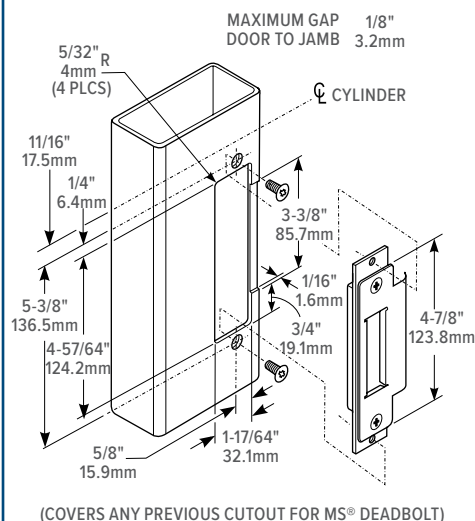
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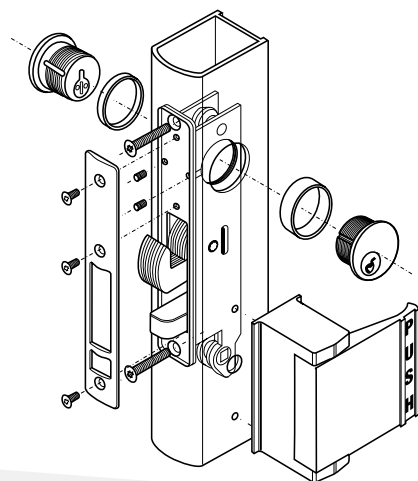
## Dimensions



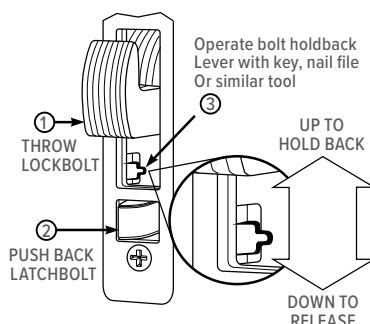
## Jamb Preparation



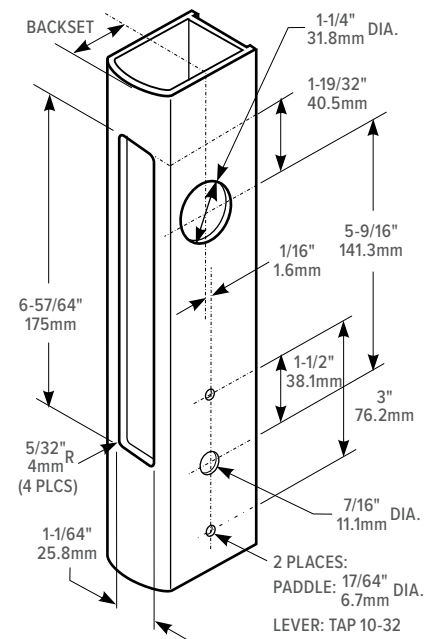
## Latch/Lock, Cylinder & Paddle Installation



## Latch Holdback Instructions



## Stile Preparation



## How to Order & Related Products

**MS+1890 Series MS® Deadlock/Deadlatch:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	STRIKE SHAPE/LIP LENGTH	HANDING	FINISH
MS+189	1	-3	02	6	-628
	0 Flat	2 31/32"	01 Flat/Standard Jamb	5 LH or RHR	313 Dark Bronze Anodized
	1 Radius	3 1-1/8"	02 Radius/Standard Stile	6 RH or LHR	335 Black Anodized
	1W Radius with weatherstrip	4 1-1/2"	17 Flat/Center Hung 4" Jamb		628 Clear Anodized
	2 Bevel		21 Flat/Center Hung 4-1/2" Jamb		
	3 Without faceplate, without strike plate				

For door thickness other than 1-3/4", contact factory.

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM
Trim strikes, including 4505 armored strike.	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard	4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4089 Exit Indicator

# MS1950, MS1950-X5X Series MS® Deadlocks

The stainless steel **MS1950 Series MS® Deadlock** utilizes a laminated stainless steel bolt, to provide maximum security for a single leaf narrow stile aluminum door.

The stainless steel **MS1950-X5X Series MS® Deadlock** utilizes a laminated stainless steel hookbolt, to provide maximum security for a single leaf narrow stile aluminum door.

Both are activated by a pivot mechanism.

## Function

A huge bolt of laminated stainless steel, nearly 3" long, activated by an uncomplicated pivot mechanism, has made the basic **MS1950 MS® Deadlock** the standard of the narrow stile aluminum door industry. The length of this bolt provides maximum security for a single leaf door, even a very tall and flexible one or an installation where the gap between the door and jamb is greater than it should be.

The stainless steel **MS1950-X5X Series MS® Deadlock** answers the security need of sliding doors in commercial, industrial, and institutional buildings. The mechanism is identical to the widely used Maximum Security swinging door lock, except that the massive laminated bolt is provided in a hook shape to resist the parting motion of sliding door and jamb. The over-center MS locking action assures that forced entry attempts to pry the door in any direction, up, down, or sideways, will be defeated.

## Operation

360° turn of key or thumbturn projects or retracts the counterbalanced bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder on either or both sides.



MS1950



MS1950-X5X  
only



MS1950-X5X

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## Features

### Cylinder Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" [38.1 mm] only.

### Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth], depth varies by backset (see table left). Fully stainless steel case and internal components.

### Bolt

Eight-ply laminated stainless steel. Center ply has alumina-ceramic core to defeat any hacksaw attack, including rod-type "super" hacksaws.

**MS1950 Bolt:** Standard straight bolt measures 5/8" x 1-3/8" x 2-7/8" [15.9 mm x 34.9 mm x 73.0 mm] with 1-3/8" [34.9 mm] throw.

**MS1950-X5X Bolt:** 5/8" x 1-3/8" [15.9 mm x 34.9 mm] with 13/16" [20.3 mm] throw. Hook shape repels pry bar attempts to "spread" the door from its jamb or lift it off its track.

### Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm].

### Strike

See next page for dimensions of strike slot which can be cut in metal jamb. Trim plate, box strike, and armored strike are available separately.

### Standard Package

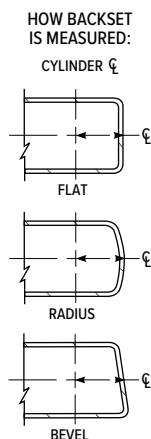
Individually boxed with machine screws for mounting. Cylinders and/or thumbturns available separately.

### Shipping weight

1-1/2 lbs. [0.68 kg]

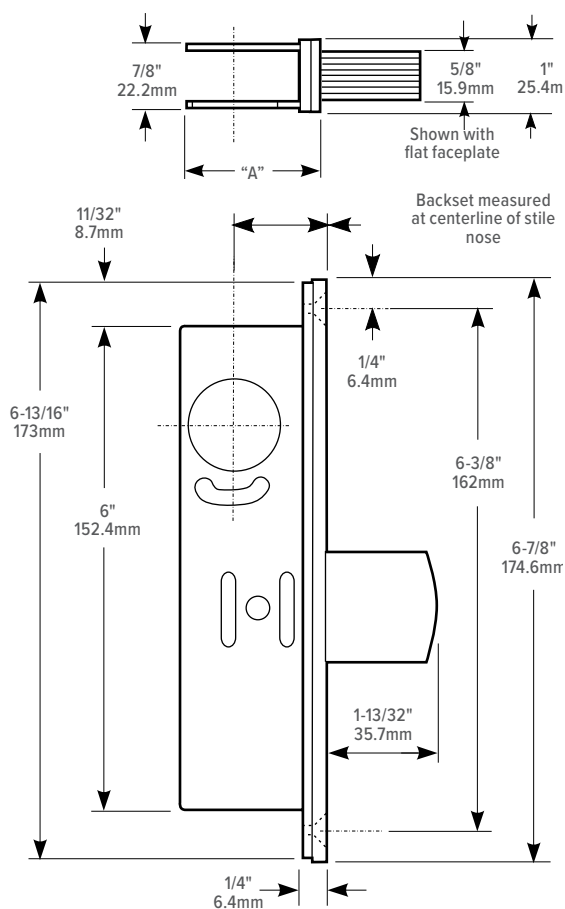
## Options

- "SCHOOLHOUSE" version, also available, is modified so that operation from inside is "unlock only". This lock is handed and must be specified LH or RH. Specify Series SCH1950, (-X5X). Same faceplate and backset options as Series MS1950, (-X5X).

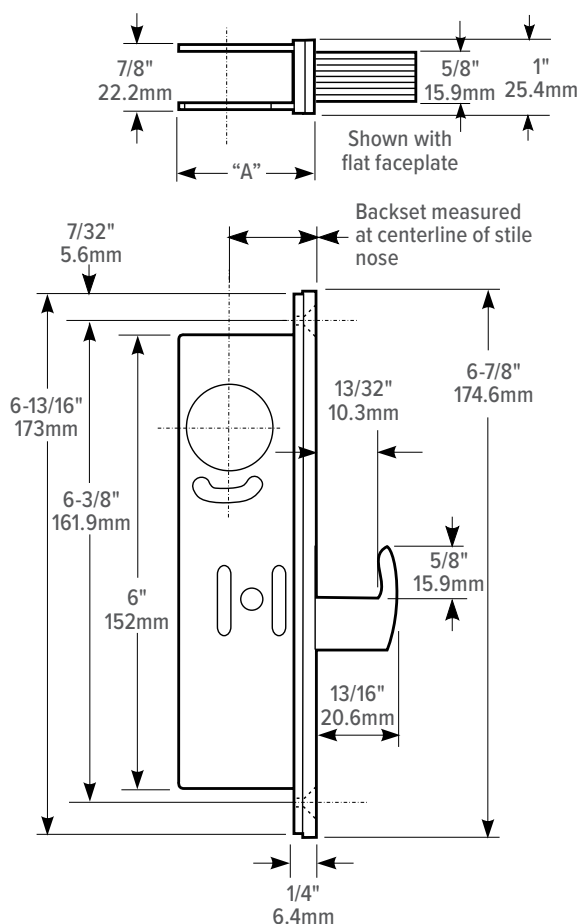


ARMORED FACEPLATE 1" X 6-7/8"	
FLAT MS1950	
RADIUS MS1951	
RADIUS W/ WEATHERSTRIP MS1951W	
LH BEVEL MS1952-X15	
RH BEVEL MS1952-X16	
BACKSET	"A"
31/32" 24.6mm	1-5/8" 41.3mm
1-1/8" 28.6mm	1-25/32" 45.2mm
1-1/2" 38.1mm	2-1/4" 57.2mm

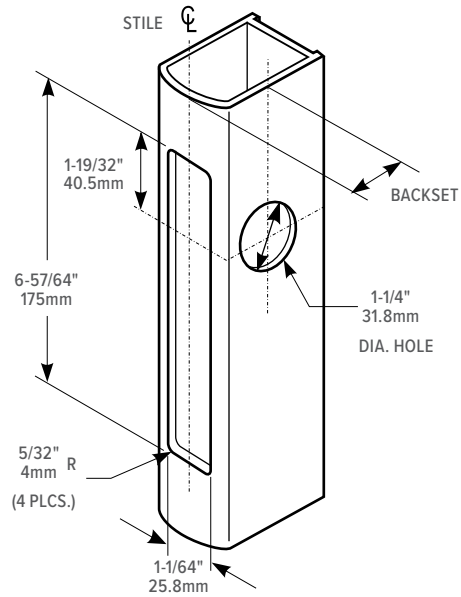
## MS1950 Dimensions



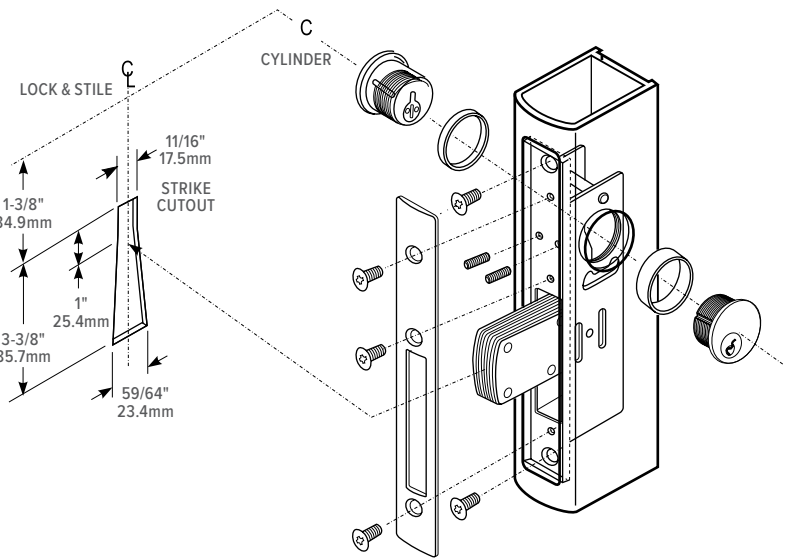
## MS1950-X5X Dimensions



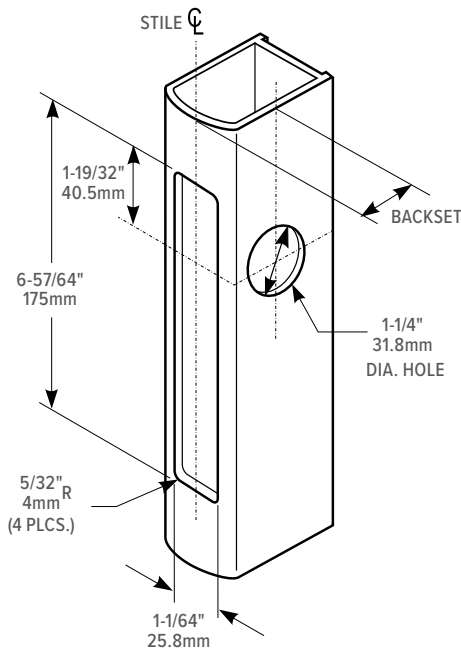
## MS1950 Stile Preparation



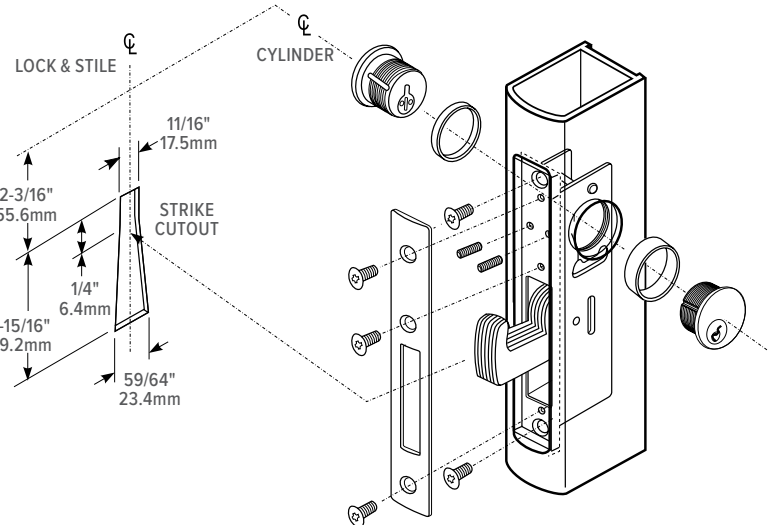
## Lock & Cylinder Installation



## MS1950-X5X Stile Preparation



## Lock & Cylinder Installation



# How to Order & Related Products

**MS1950, MS1950-X5X Series MS® Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	BOLT SHAPE	HANDING	FINISH
MS195	0	-2	1	0	-628
	0 Flat	2 31/32"	1 Straight bolt	0 Non-Handed*	313 Dark Bronze Anodized
	1 Radius	3 1-1/8"	2 Hookbolt	5 LH or RHR	335 Black Anodized
	1W Radius with weatherstrip	4 1-1/2"		6 RH or LHR	628 Clear Anodized
	2 Bevel				
	3 Without faceplate, without strike plate				

\*Any flat or radius faceplate, except Schoolhouse. Select handing for bevel faceplate only.

## RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	SPECIAL ORDER OPTIONS
4015 Threshold Bolt, 4016 Header Bolt for multi-point locking. 4085 Header Bolt for pairs of doors 4000, 4001, MS4002 Deadlock Strikes Lock mounting accessories and options	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard	3090, 3090P, 3090C, A100 Series Keyless Entry, 4550 Deadlock Lever 4089 Exit Indicator	Schoolhouse function available as special order.

# Dual Force® 2190, 2290

## Series Interconnected Deadbolt/Deadlatch

The 2190 Series Interconnected Deadbolt/Deadlatch provides access control and security for narrow stile aluminum (**2190**), hollow metal and wood doors (**2290**). Deadlatch and deadbolt capabilities are combined for fast, easy, and panic-proof exiting.

### Function

The Dual Force combines the access control capabilities of a latch with the security of a deadbolt. The key retracts and extends the deadbolt and deadlatch from either side. The exterior lever retracts the latch only. With the deadbolt projected, a simple turn of the inside lever retracts both the latch and deadbolt simultaneously, providing single-motion, panic-proof exiting. The Dual Force is available with electrified trim set for easy integration into an existing access control system. Standard trim set, electrified trim set, low profile trim set designed for out-swinging doors only.

### Operation

Key or thumbturn projects or retracts deadbolt or deadlatch. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately. Lock accepts cylinder from either or both sides.

Inside lever retracts both deadbolt and deadlatch when configured with interconnect feature. Outside lever retracts latch only. Latch holdback feature activated or deactivated by turning key to retract latch. Sliding holdback button on faceplate down will holdback latch and sliding up will release. The 2190 Series Interconnected Deadbolt/Deadlatch are designed to operate with the uniquely designed strike plate that comes standard in the package from the factory.



2190



2290





## Features

### Cylinder Backset

1-1/8" [28.6 mm] or 1-1/2" [38.1 mm] only

### Bolt

Latchbolt: 5/8" [15.9 mm] throw of solid brass.  
Easily reversible using only a screwdriver.  
Deadbolt: 1" [25.4 mm] throw of stainless steel.

### Auxiliary Deadlatch Pin

Stainless steel. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

### Faceplate

Includes faceplate system that adapts to flat, radius, or beveled door edge.

**2190:** Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Radius with weatherseal faceplate available separately.

**2290:** Measures 1-1/4" x 8" [31.8 mm x 203.2 mm].

### Strike

The Dual Force 2190, 2290 Interconnected Deadbolt/Deadlatch will not operate without its specially designed strike, included standard in package.

**2190:** Standard strike furnished is the 2101-01 Strike for flat jamb where door closes flush or nearly flush. The 2101 Strike covers MS® Deadlock strike preparation with modification, and the 4901 Deadlatch Strike directly. Also available in radius version for opposite stile pairs of doors and with extended lip strikes for special jamb conditions.

**2290:** Standard strike furnished is the 2206 (ASA) Strike for flat jamb where door closes flush or nearly flush.

### Standard Package

Individually boxed with trim as specified, strike and machine screws for mounting. Cylinder available separately.

### Shipping Weight

9 lbs [4.08 kg].

### Inter Connection

Field-selectable inter-connection feature allows interior trim to retract deadbolt and deadlatch. Consult local authority having jurisdiction (AHJ) for guidance in code compliance. 1-3/4" [44.5 mm] minimum door thickness required.

- 2190 retrofits to existing MS1850S Deadlock or 4500 and 4900 Deadlatch of the same backset.

## Electrical



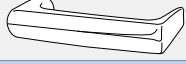
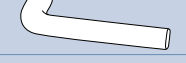
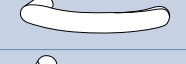

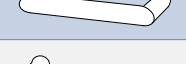
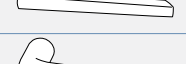



### Electrified Trim Options

Electrified trim set is designed for easy integration into an existing access control system. Dual-voltage 12/24 VDC rated for continuous duty operation. Energizing the trim set allows the exterior lever to be turned to retract the latch only. The electrified option is not available for low profile trim (trim option 3). Dual Force 2190/2290 Electrification Kit EK-2190 available separately for field-installation into the exterior standard trim set.

## Options

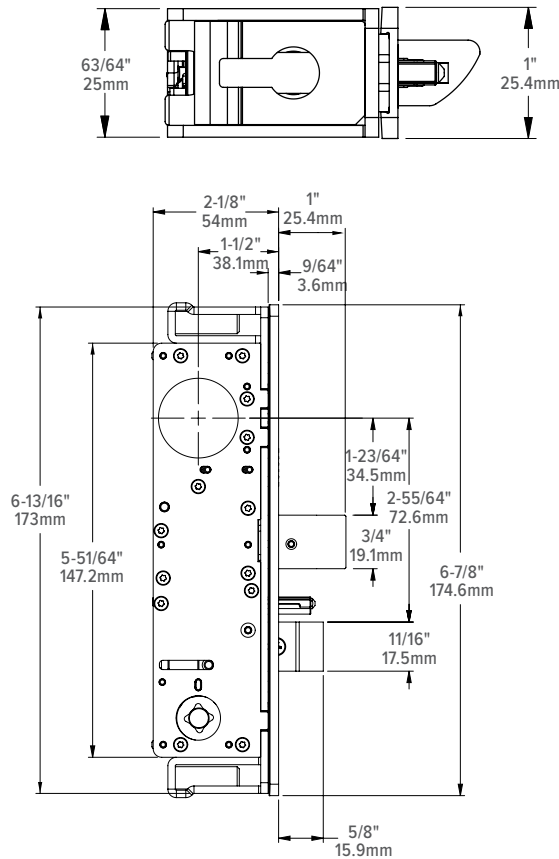
- Specify trim option, lever style, finish, and strike
  - Low profile trim (trim option 3) recommended for in-swing door applications
- Thick Door Kits (2190-TDKXX) available separately. Specify door thickness. (2190 only)
- Request to Exit REX-4600 switch available separately for small format low profile trim set (2290 only)
- Available in choice of US3 (605) Bright brass, US4 (606) Satin brass, 10B powder coat to match dark bronze, US32 (629) Bright stainless, or US32D (630) Satin stainless.

## Options & Accessories

	OPTION	DESCRIPTION   SHORT
	Standard Series 01	Standard lever, curved
	Standard Series 02	Standard lever, round
	Standard Series 03	Standard lever, square
	Aventura Series ME	Studio Collection designer lever
	Aventura Series MG	Studio Collection designer lever
	Aventura Series MI	Studio Collection designer lever
	Aventura Series MW	Studio Collection designer lever
	Centro Series MD	Studio Collection designer lever
	Centro Series MJ	Studio Collection designer lever
	Odeon Series MN	Studio Collection designer lever
	Odeon Series MV	Studio Collection designer lever

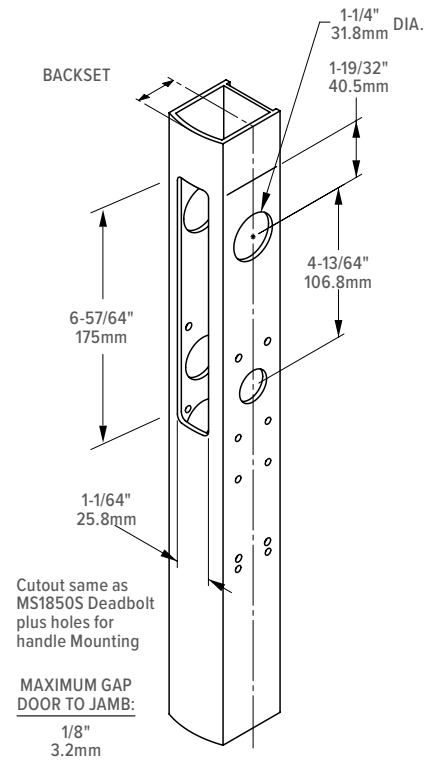


## 2190 Dimensions



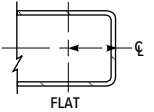
## Stile Preparation

For clutched exterior Trim Set

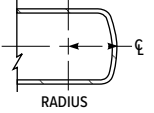


HOW BACKSET  
IS MEASURED:

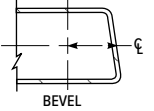
CYLINDER  $\varnothing$



FLAT



RADIUS



BEVEL

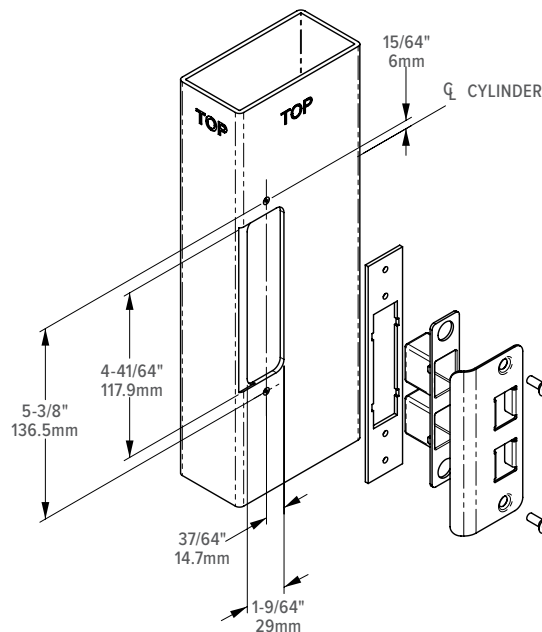
ARMORED FACEPLATE  
1" X 6-7/8"

FLAT 24-0066-01 (included)

RADIUS 24-0066-02 (included)

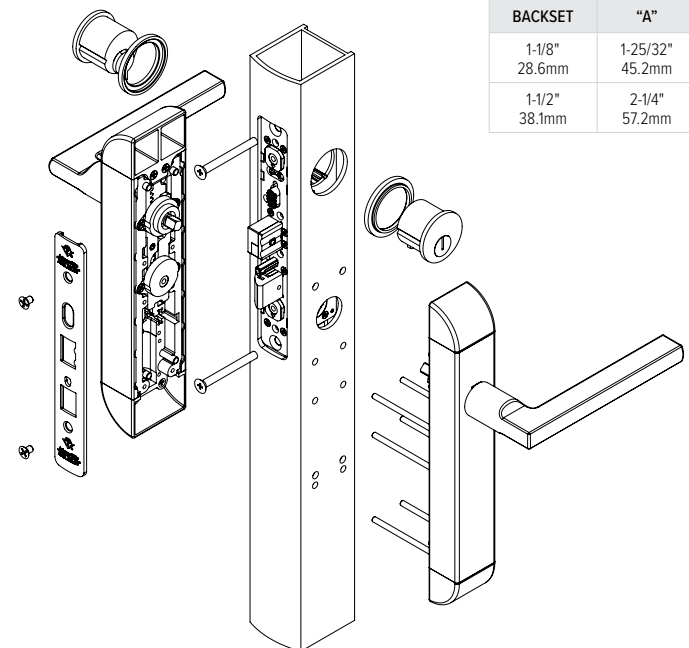
RADIUS W/ WEATHERSTRIP  
24-0066-03

## Jamb Preparations



2101 Strike (covers and previous cutout for MS® Deadbolt)  
— Retrofits 4901 and 4501 strike preparations.

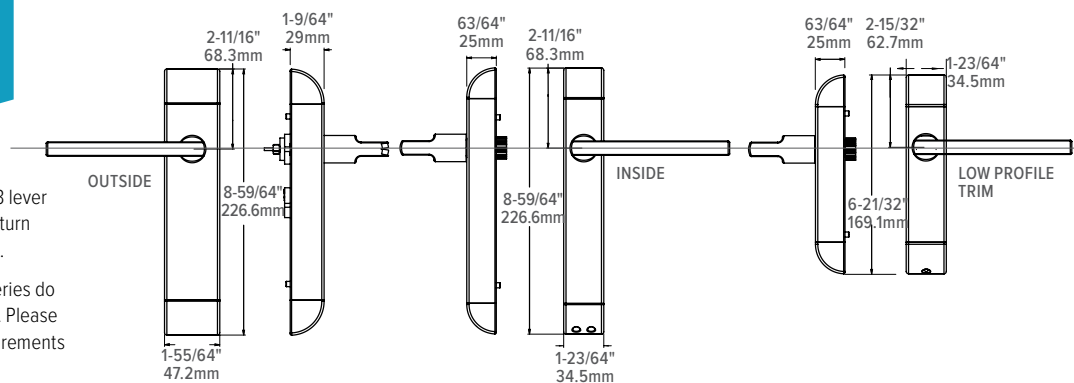
## Latch/Lock, Cylinder & Level Installation



BACKSET	"A"
1-1/8" 28.6mm	1-25/32" 45.2mm
1-1/2" 38.1mm	2-1/4" 57.2mm

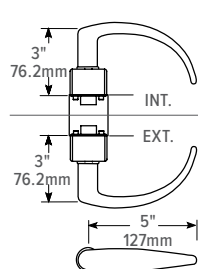
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

## 2190 Dimensions

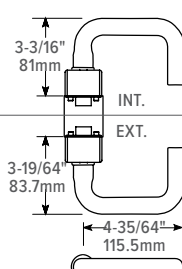


\* The 2190-01, -02, and -03 lever handles are designed to return within 1/2" of the door face.

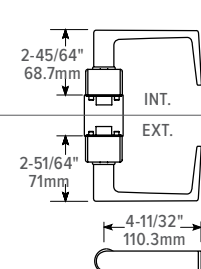
Handles in the Designer Series do not have this same feature. Please verify with local code requirements to ensure compliance.



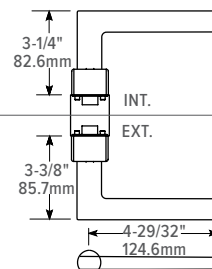
2190 WITH  
01 LEVER\*



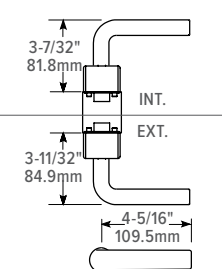
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02 LEVER\*



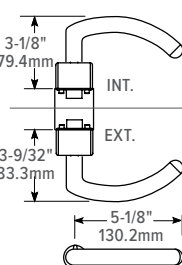
2190 WITH  
03 LEVER\*



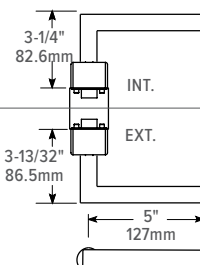
2190 WITH  
MD LEVER



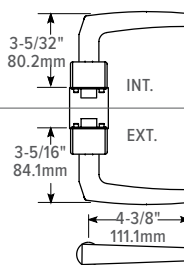
2190 WITH  
ME LEVER



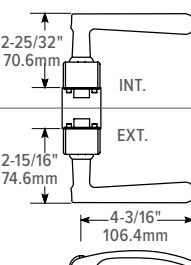
2190 WITH  
MG LEVER



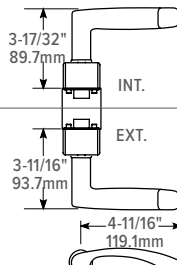
2190 WITH  
MI LEVER



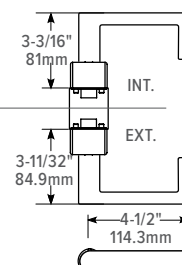
2190 WITH  
MJ LEVER



2190 WITH  
MN LEVER\*\*



2190 WITH  
MV LEVER\*\*



2190 WITH  
MW LEVER

\*\* Handed

## How to Order & Related Products

**2190 Interconnected Deadbolt/Deadlatch:** Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	STRIKE	FACEPLATE FINISH	TRIM*	HANDLE DESIGNATION				TRIM AND HANDLE FINISH	
2190	-3	1	1	-1	01				32D	
	3 1-1/8"	0 None	1 Clear Anodized 628	0 None	00 No Handle				03 Bright Brass (US3)	
	4 1-1/2"	1 Standard Flat	2 Dark Bronze Anodized 313	1 With Trim Set*	STANDARD SERIES:				04 Satin Brass (US4)	
		2 Radius Strike	3 Black Anodized 335	2 With Electrified Trim Set*	01 Curve	02 Round	03 Square	10B	to match Dark Bronze	
		3 Flat/Center Hung 4"		3 Low Profile Trim	DESIGNER SERIES:				32	Bright Stainless (US32)
		4 Flat/Center Hung 4-1/2"			MD	MG	MJ	MV	32D	Satin Stainless (US32D)
					ME (Handed)	MI	MN	MW		

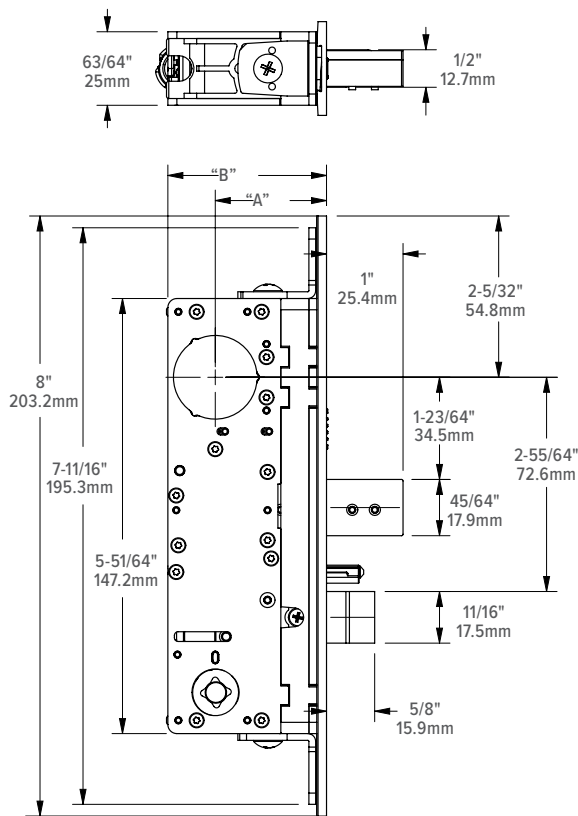
\* Trim options 1 and 2 are suitable for outswing doors only.

### RELATED

When purchasing this product, please consider the following related products, available separately:

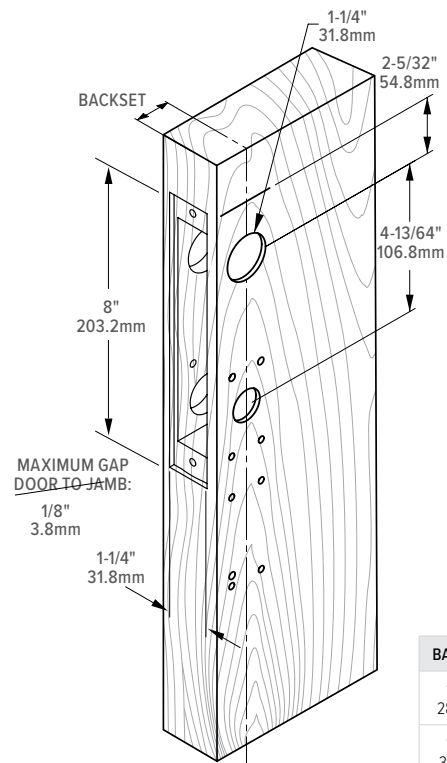
ELECTRIFICATION	ACCESSORIES	CYLINDERS
EK-2190 Electrification Kit. 2190 may be ordered with electrified trim (trim option 2).	2190-TDK Thick Door Kit for standard exterior trim set, TDK-4600 Thick Door Kit for low profile trim set.	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard

## 2290 Dimensions



## Stile Preparation

For clutched exterior Trim Set

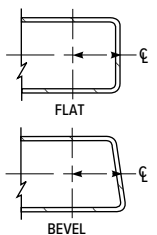


ARMORED FACEPLATE  
1-1/4" X 8"

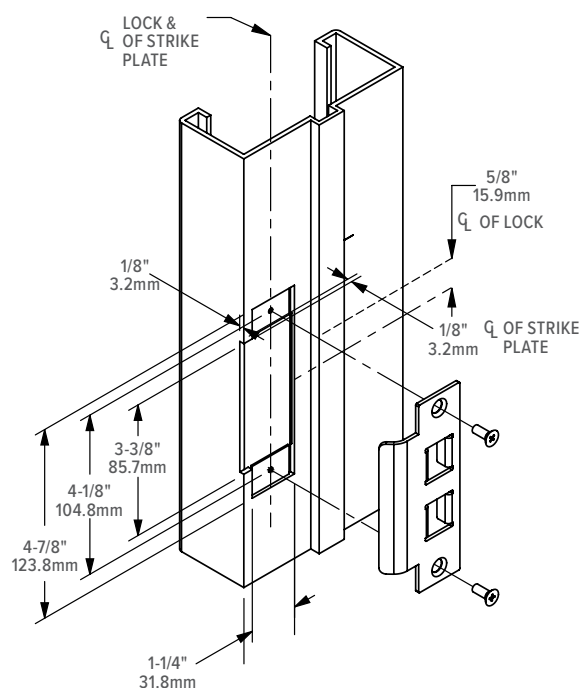
FLAT (included)  
FPK-0066-0X-XXX

BACKSET	"A"	"B"
1-1/8" 28.6mm	1-1/8" 28.6mm	1-3/4" 45.2mm
1-1/2" 38.1mm	1-1/2" 38.1mm	2-1/8" 54mm

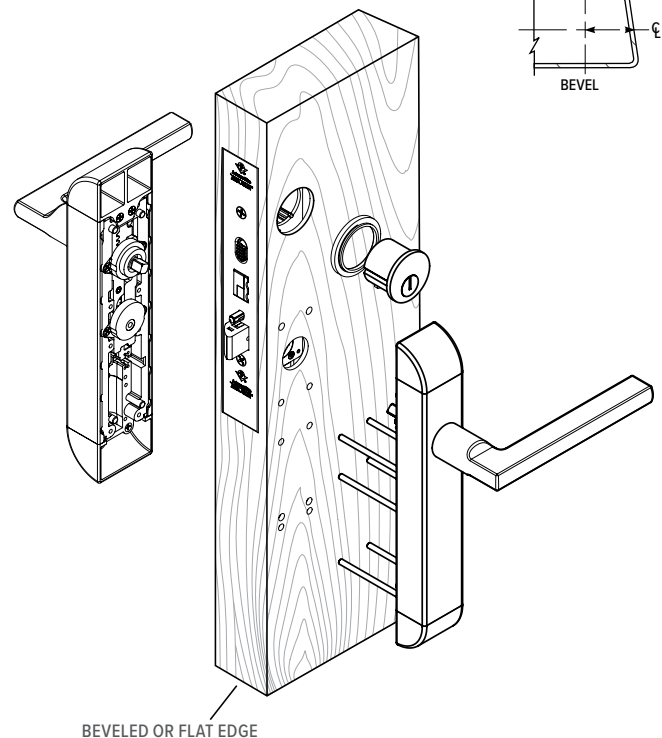
HOW BACKSET  
IS MEASURED:  
CYLINDER C



## Jamb Preparations

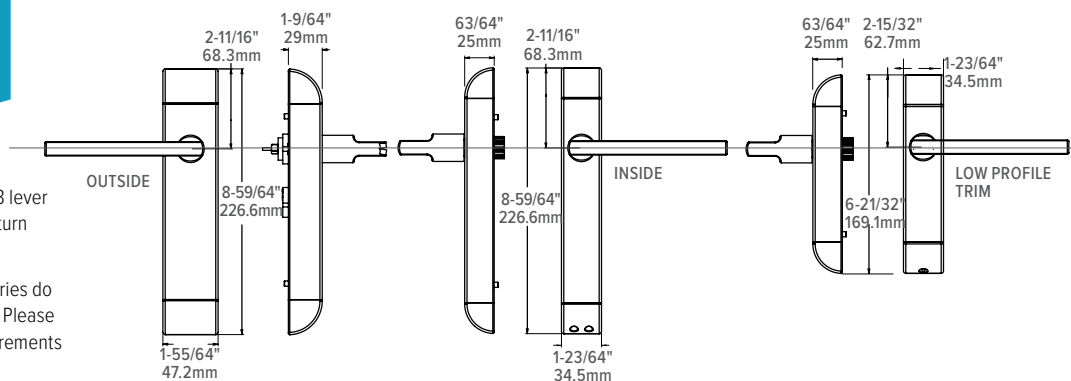


## Latch/Lock, Cylinder & Level Installation



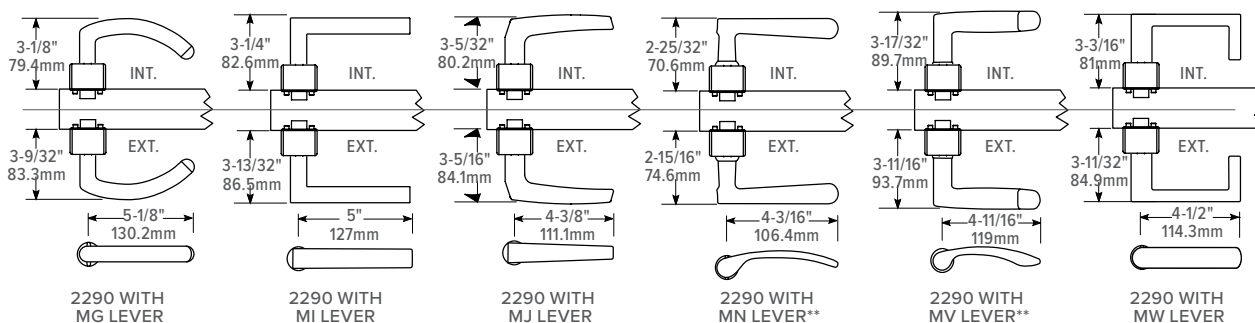
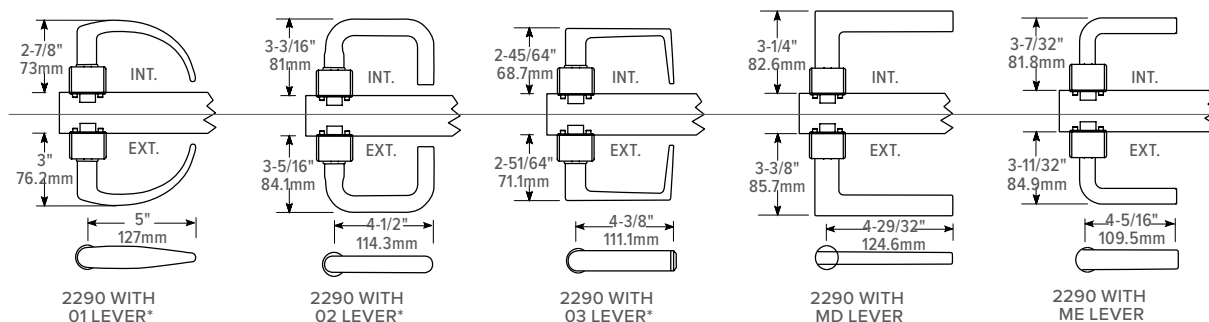
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

## 2290 Dimensions



\* The 2290-01, -02, and -03 lever handles are designed to return within 1/2" of the door face.

Handles in the Designer Series do not have this same feature. Please verify with local code requirements to ensure compliance.



\*\* Handed

## How to Order & Related Products

**2290 Interconnected Deadbolt/Deadlatch:** Specify quantity and the following information. Order related products separately.

MODEL	BACKSET	STRIKE	FACEPLATE FINISH	TRIM*	HANDLE DESIGNATION				TRIM AND HANDLE FINISH
2290	-3	1	1	-1	01				32D
	3 1-1/8"	0 None	0 US to match trim finish	0 None	00 No Handle				03 Bright Brass (US3)
	4 1-1/2"	1 Standard Flat	1 Clear Anodized 628	1 With Trim Set*	STANDARD SERIES:				04 Satin Brass (US4)
			2 Dark Bronze Anodized 313	2 With Electrified Trim Set*	01 Curve	02 Round	03 Square	10B to match Dark Bronze	
			3 Black Anodized 335	3 Low Profile Trim	DESIGNER SERIES:			32 Bright Stainless (US32)	
					MD	MG	MJ	MV	32D Satin Stainless (US32D)
					ME (Handed)	MI	MN	MW	

\* Trim options 1 and 2 are suitable for outswing doors only.

### RELATED

When purchasing this product, please consider the following related products, available separately:

ELECTRIFICATION	ACCESSORIES	CYLINDERS
EK-2190 Electrification Kit. 2190 may be ordered with electrified trim (trim option 2).	2190-TDK Thick Door Kit for standard exterior trim set, TDK-4600 Thick Door Kit for low profile trim set.	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard

# 2331

## Heavy Duty Deadbolt

2331 Heavy Duty Deadbolt provides a heavy duty deadbolt lock that expands into the strike for heavy duty hollow metal or wood applications.

### Function

A heavy duty deadbolt for hollow metal or wood sliding doors, the 2331 Heavy Duty Deadbolt throws a massive brass bolt into its strike, then expands two stainless steel dogs to secure the door. A single turn of the key expands or retracts the bolt. There is no latch action.

### Operation

360° turn of key or thumbturn extends and projects or retracts and withdraws the bolt. Key cannot be removed unless bolt is positively locked or totally retracted. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder or thumbturn with special cam dimensions. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

1-3/4" [44.5 mm] only.

#### Case

Measures 7/8" x 3-5/8" x 2-5/8" deep [22.2 mm x 92.1 mm x 66.7 mm]. Zinc alloy.

#### Bolt

Brass with stainless steel dogs, 1/2" x 1-1/2" [12.7 mm x 38.1 mm] with 3/4" [19.1 mm] horizontal throw and 11/32" [8.7 mm] expansion above and below main bolt.

#### Strike

1/8" x 1" x 4-11/16" [3.2 mm x 25.4 mm x 119.1 mm] with 5/8" x 1-5/8" [15.9 mm x 41.3 mm] opening. Brass, with four-screw mounting. Trim finish same as faceplate.

#### Armored Faceplate

Measures 1" x 5-3/4" [25.4 mm x 146.1 mm]; Flat faceplate of brass. Available in a variety of finishes.

#### Special Cylinder Cam

Special Cam (2331): Operable by any standard mortise cylinder with special cam dimensions. Cylinders with such cams can be readily obtained from most cylinder manufacturers. See CYLINDERS section for cylinder make, thumbturn and trim ring information.

#### Standard Package

Individually boxed with strike and wood screws for mounting lock and strike. Cylinder and/or thumbturn available separately.

#### Shipping weight

2 lbs [.91 kg].

### Options

- Available in choice of US3 Polished Brass (605), US26 Bright Chrome (625), US26D Satin Chrome (626), 121 to match 313 Dark bronze anodized.

ASSA ABLOY, the global leader  
in door opening solutions

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ARM-014-9/17

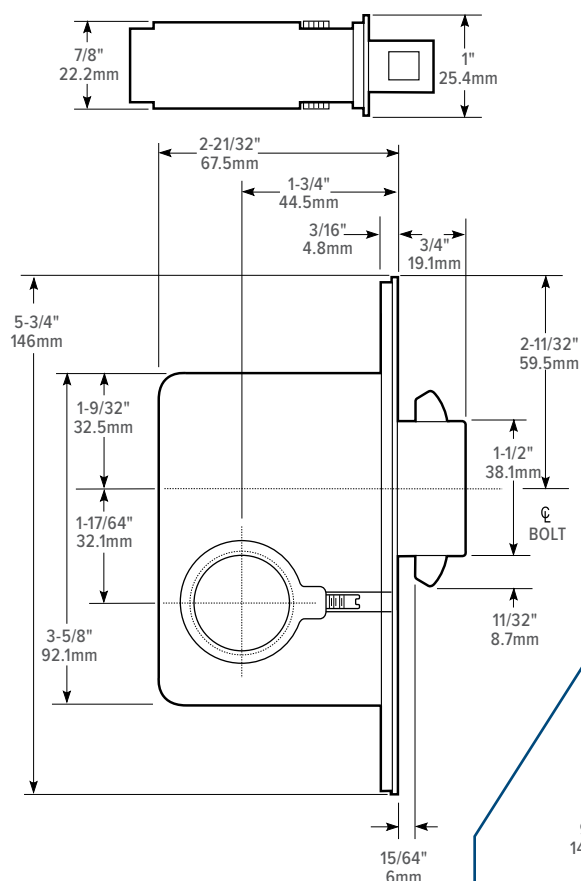
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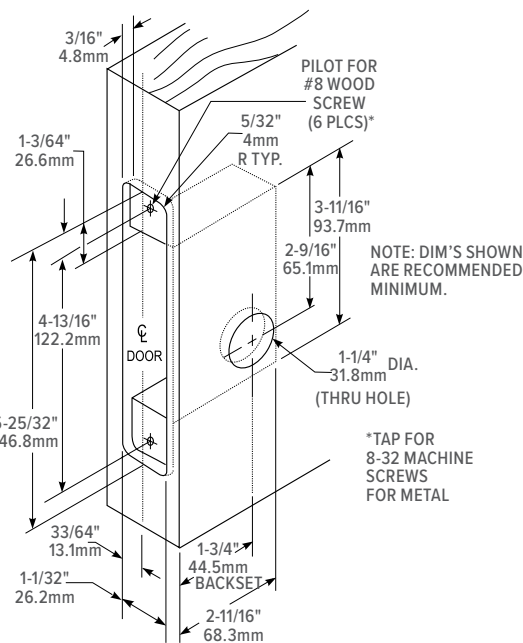
[adamsrite.com](http://adamsrite.com)

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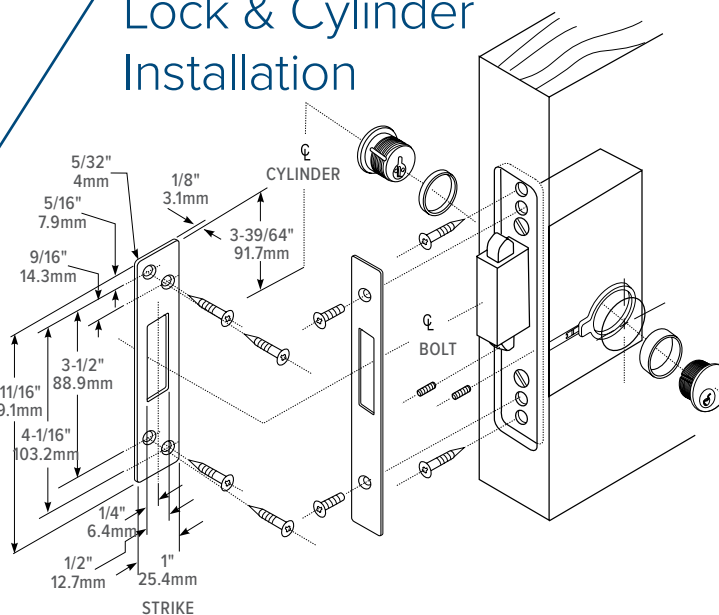
## Dimensions



## Wood Door Preparation



## Lock & Cylinder Installation



## How to Order & Related Products

**2331 Heavy Duty Deadbolt:** Specify quantity and the following information. Order related products separately.

MODEL	FINISH
2331	-626
	121 To match 313 Dark Bronze Anodized
	605 Bright Brass
	625 Bright Chrome
	626 Satin Chrome

### RELATED

When purchasing this product, please consider the following related products, available separately:

#### CYLINDERS

Standard 1" length, 1-5/32" diameter mortise cylinder with special 2331 cam, such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard.



# 4070 Series

## Short Throw Deadbolt (Projection Style)

4070 Short Throw Deadbolt provides security for a conventionally projected bolt in installations where the longthrow MS® Deadlock cannot be used. The smaller 4070 deadbolt offers the longest practical throw from a narrow stile.

### Function

For installation where the long-throw MS® Deadlock cannot be accommodated, the smaller 4070 deadbolt offers the longest practical throw for a conventionally projected bolt from a narrow stile. Operates with one-half key turn of any standard mortise type cylinder or cylinder type thumbturn. This product is not designed for use in bottom rail.

### Operation

180° turn of key or thumbturn projects or retracts the bolt. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder or thumbturn with special cam dimensions. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

7/8" [22.2 mm], 31/32" [24.6 mm], or 1-1/8" [28.6 mm] only.

#### Case

Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth], depth varies by backset. Steel with corrosion-resistant plating.

#### Bolt

5/8" x 1-1/4" x 5/8" [15.9 mm x 31.8 mm x 15.9 mm] throw.

#### Strike

In metal installations, a slot in door jamb serves as strike. 4170 Trim Strike is available separately for wood installations.

#### Faceplate

Measures 1" x 5-9/16" [25.4 mm x 141.3 mm].

#### Special Cylinder Cam

Special Cam (4070): Operable by any standard mortise cylinder with special cam dimensions. Cylinders with such cams can be readily obtained from most cylinder manufacturers. See CYLINDERS section for cylinder make, thumbturn and trim ring information.

#### Standard Package

Individually boxed with machine screws for mounting. Cylinder and/or thumbturn available separately.

#### Shipping weight

1 lb [0.45 kg].

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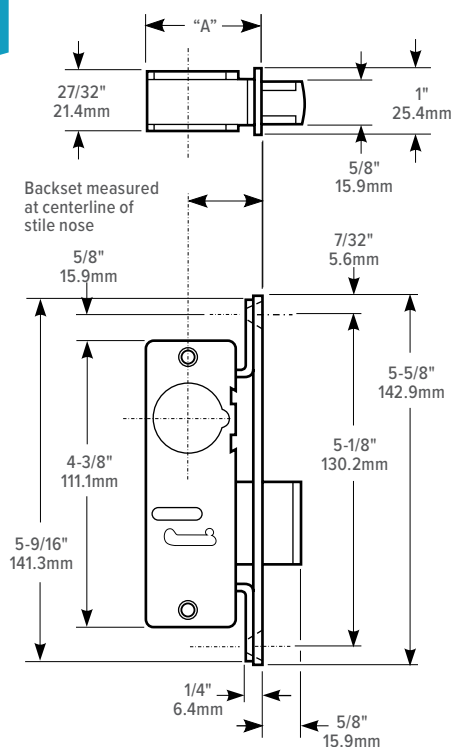
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**Adams  
Rite**  
**ASSA ABLOY**

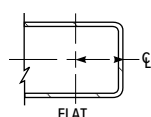
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

## Dimensions

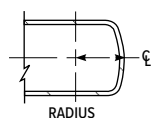


HOW BACKSET  
IS MEASURED:

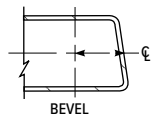
CYLINDER 6



FLAT

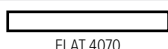


RADIU

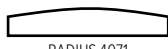


BEVEL

ARMORED FACEPLATE  
1" X 5-5/8"



FI AT 4070



RADIUS 4071

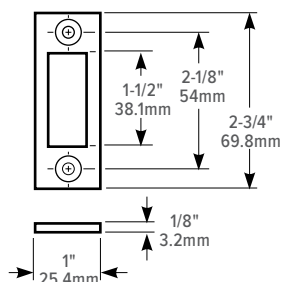


LH REVEL 4072-X5

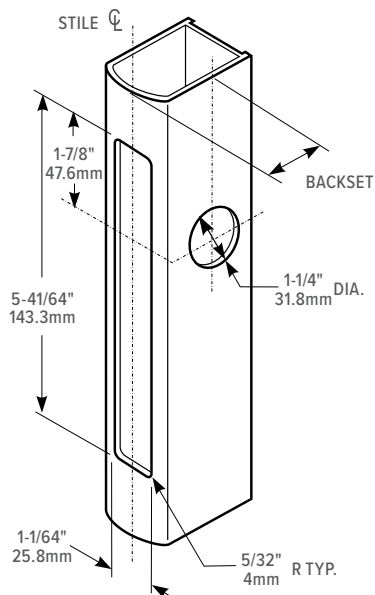


RH REVEL 4072-X6

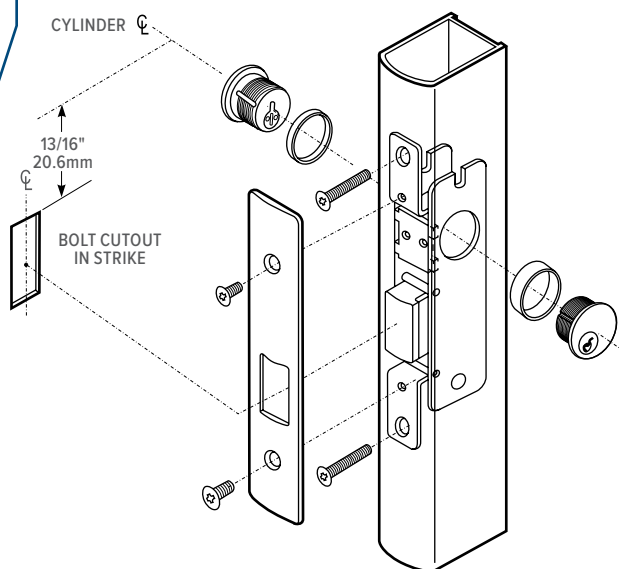
BACKSET	"A"
7/8" 22.2mm	1-37/64" 40.1mm
31/32" 24.6mm	1-5/8" 41.3mm
1-1/8" 28.6mm	1-25/32" 45.2mm



## Door Preparation



# Lock & Cylinder Installation



## How to Order & Related Products

**4070 Short Throw Deadbolt (Projection Style):** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	FINISH
407	2	-2	6	-628
	0 Flat	1 7/8"	0 Non-Handed*	313 Dark Bronze Anodized
	1 Radius	2 31/32"	5 LH or RHR	335 Black Anodized
	2 Bevel	3 1-1/8"	6 RH or LHR	628 Clear Anodized
	3 Without faceplate, without strike plate			

\*Select handing for bevel faceplate only.

## RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS
4170 trim strike for wood installations	Standard 1" length, 1-5/32" diameter mortise cylinder with special 4070 cam, such as 4036 Mortise Cylinder, 4066 Thumbturn; MS4043 Cylinder Guard.

# 5017

## Wood Door Deadlock/Deadlatch

5017 Wood Door Deadlock/Latch provides the strength and deeper backset required to secure sliding wood doors.

### Function

For wood framed sliding doors, the 5017 Wood Door Deadlock/Latch provides the same 1000 lbs strength that the MS1847 Deadlock/Latch provides for metal stiles. A deeper backset clears the recessed jamb used with wood doors. The bolt throw is easily adjusted by means of a screw in the faceplate. Mounting is by through-bolts, which also secure the inside turn and outside cylinder when installed.

### Operation

45° rotation of turn or key projects or retracts bolt. Bolt is self-protecting: if door is shut while bolt is extended, it will retract, preventing damage or accidental lock-out. Cylinder pulls available separately for keyed operation.



### Features

#### Cylinder Backset

1-3/16" [30.2 mm]; 1-1/4" [31.8 mm] including faceplate.

#### Case

Measures 1/2" x 4" x 1-19/32" deep [12.7 mm x 101.6 mm x 40.5 mm deep]. Stainless steel.

#### Bolt

Three-ply laminated stainless steel.

#### Cylinder Pull

(4026 Pull) Five pin tumbler cylinder in zinc alloy housing. Standard finish 130 Satin Aluminum.

#### Lock

Stainless steel, 5/8" x 4-1/2" [15.9 mm x 114.3 mm] with radiused ends.

#### Turn

1015 Turn available with 1016 blank plate shown for doors from 5/6" [21.2 mm] to 2-1/4" [57.2 mm] thickness.

Without blank plate turn available (for use with cylinder pull) on doors from 1-7/16" [36.5 mm] to 2" [50.8 mm] thickness. Standard finish 130, Satin Aluminum enamel.

#### Standard Package

Cylinder pull available separately.

#### Shipping weight

1/2 lb [0.23 kg].

### Options

- 1015 Turn for inside operation is available alone (for use with 4026 cylinder pull on outside) or with a blank 1016 outside trim plate and binder posts (when cylinder is not required).
- 4810 Box Strike with wood screws available separately.

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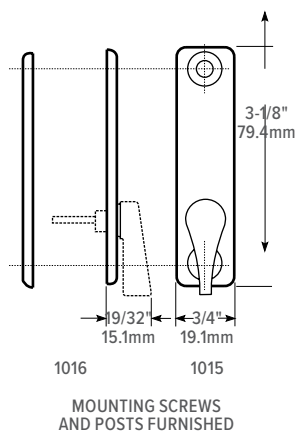
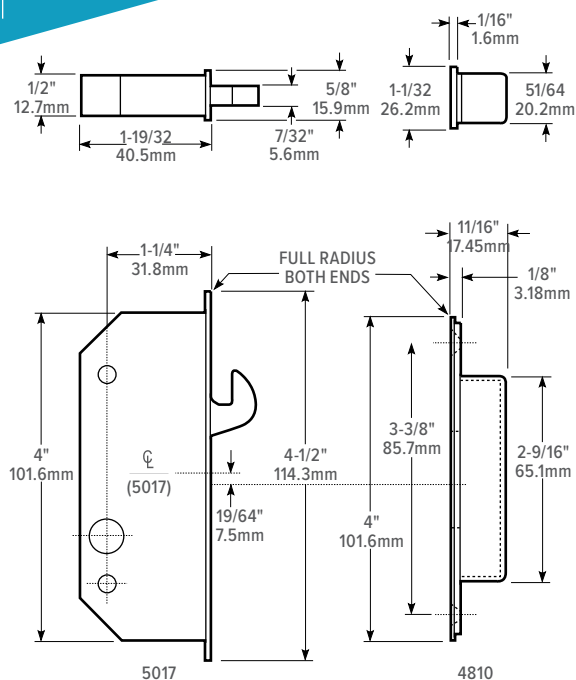
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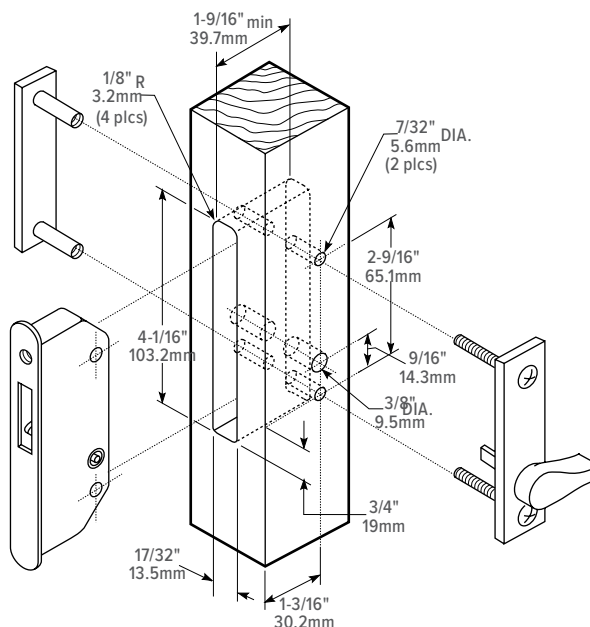
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## Dimensions



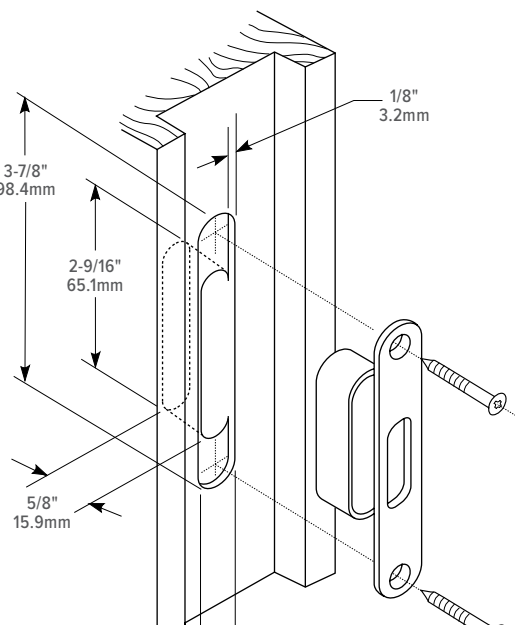
## Stile Preparation

For lock, turn & cylinder pull



## Jamb Preparation

For strike



## How to Order & Related Products

**5017 Wood Door Deadlock:** Specify quantity and the following information. Order related products separately.

MODEL	LATCH CONFIGURATION
5017	-00
	00 Standard
	02 Self Latching

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM
4810 Strike for wood installations	4024, 4025, 4026 Cylinder Pulls	1004, 1015, 1016 Series Turn

# 5500

## Deadlock for Sliding Wood Doors

5500 Deadlock for Sliding Wood Doors is a hardware set that includes the lockset, strike, and operators. The package features the 5017 Deadlock/Deadlatch with adjustable hookbolt and uses an over-sized thumbturn operator on the interior, coupled with an emergency override access location on the exterior escutcheon.

### Function

For wood framed sliding doors, the 5500 Deadlock features the 5017 Deadlock/Latch which provides the same 1000 lbs strength that the MS1847 Deadlock/Latch provides for metal stiles. The bolt throw is easily adjusted by means of a screw in the faceplate. Mounting is by through-bolts, which also secure the inside 1004 Turn Lever and outside 1016 Blank Plate escutcheon. The package incorporates the 1004 Turn Lever an oversized thumbturn operator on the interior, coupled with the 1016 Blank plate escutcheon with an emergency override access location on the exterior.

### Operation

45° rotation of 1004 Turn Lever projects or retracts bolt. Bolt is self-protecting: if door is shut while bolt is extended, it will retract, preventing damage or accidental lock-out.



### Features

#### Cylinder Backset

1-3/16" [30.2 mm]; 1-1/4" [31.8 mm] including faceplate.

#### Case

Measures 1/2" x 4" x 1-19/32" deep [12.7 mm x 101.6 mm x 40.5 mm deep]. Stainless steel.

#### Bolt

Three-ply laminated stainless steel.

#### Door Thickness

1" to 1-1/4" [25.4 mm to 31.8 mm] thick doors.

#### Faceplate

Measures 5/8" x 4-1/2" [15.9 mm x 114.3 mm] with radiused ends. Stainless steel.

#### Strike

4810 Box Strike for wood.

### Operators

**Inside:** 1004 Turn lever is zinc alloy with stainless steel escutcheon for interior activation of lock. Spindle is hardened steel, plated for corrosion resistance.

**Outside:** 1016 Blank plate escutcheon with emergency override access location on exterior of door.

### Options

Available in choice of finish US26D (626) Satin chrome, or powder coat 119 Black to match 335 Black anodized.

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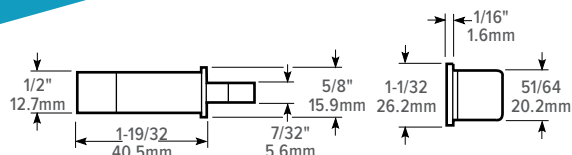
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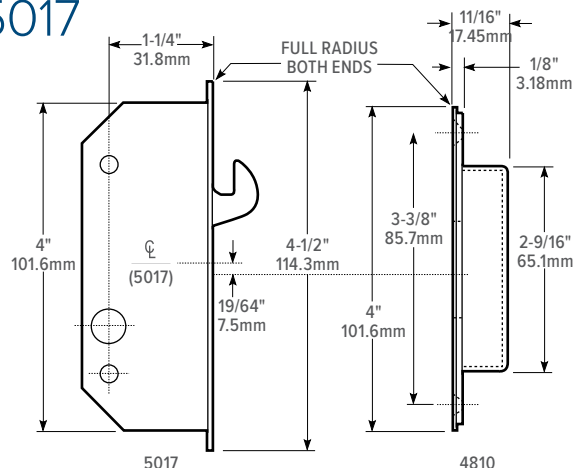
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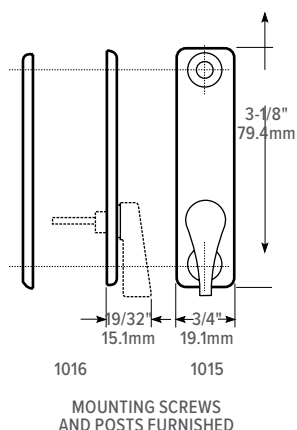
## Dimensions



### 5017

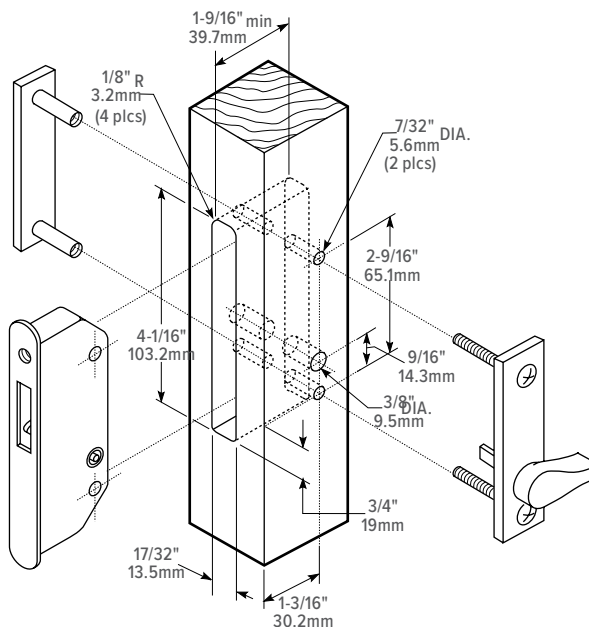


### 1004



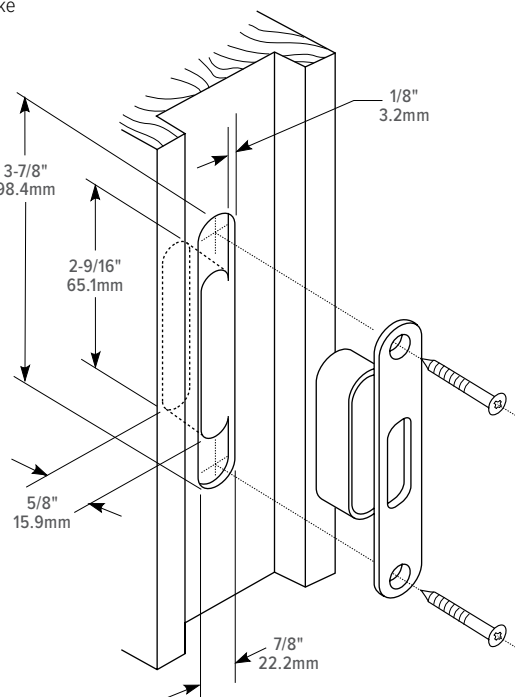
## Stile Preparation

For lock, turn & cylinder pull



## Jamb Preparation

For strike



## How to Order

5500 Wood Door Deadlock for Sliding Doors: Specify quantity and the following information. Order related products separately.

MODEL	DOOR THICKNESS	FINISH
5500	-20	-626
	20 1-1/4" thick	626 Satin Chrome
		119 To match 335 Black Anodized

# Options & Accessories

Adams Rite Deadlocks including the MS® Maximum Security Deadlocks can be ordered with a variety of related products including strike plates, cylinder accessories and trim. Different deadlocks have different installation and cylinder requirements. Please refer to product pages for more information on all available deadlock types, functions, installation requirements and complete How-to-Order guides.

For more detailed information on any of the products listed below please refer to the corresponding section of this catalog.

## Accessories

### 4000 Series MS Deadlock Strikes

4000 surface mounted strike plate, 4001 strike plate with dust box, 4005 threshold strike, 4006 floor strike, 4505 armored strike, or 4003 ANSI strike add aesthetics and finish to strike cutouts in jambs.

### 4800 Series Strikes

4801 for hollow metal, 4802 for wood, or MS4804 reinforcing strike, the 4800 Series Strikes boast vertical adjustment and include a shim system for horizontal positioning for nearly any sliding door using a mortised MS1847 Deadlock or latch.

### Header Bolts

4015 Threshold Bolt is a two-point lock that easily secures a single door entrance. Security for pairs of doors with single key turning is possible with the 4016 Header Bolt. The three-point lock easily secures the entire double door entrance when working in conjunction with an MS Deadlock. 4085 Header Bolt facilitate top-of-door third locking point for pairs of doors when working in conjunction with an MS pivoted bolt deadlock and 4015 Threshold Bolt in the active leaf.

### Exit Indicator

The 4089 Exit Indicator provides exit door notification for various Adams Rite deadlocks.

## Trim

### 1000 Turns

The 1000 Turns with or without escutcheon are designed to operate Adams Rite MS1847 Deadlocks and 5017 Wood Door Deadlock. These turns mount easily to door pull or other trim plate using push-nut mounting. The 1004 Turn has a longer, more ergonomically-friendly turn lever, the 1015 Turn is available for wood door applications with the 5017 Wood Door Deadlock.

### 3090 Keyless Entry

A battery-operated keyless entry control device, the eForce-150 3090 Keyless Entry provides access control for Adams Rite deadlocks, deadlatches, and exit devices for aluminum stile, steel, and wood door applications.

The eForce 3090P (Prox) and 3090C (iCLASS) Keyless Entries provide maximum security with either HID® Prox or iCLASS contactless card reader.

### 4550 Deadlock Lever

The 4550 MS Deadlock Lever easily unlocks an MS Deadlock with approximately 3 pounds of downward force. The spring-loaded lever relocks with an upward motion. Can be installed in place of existing key cylinder or cylinder type thumbturn on inside of door.

### Deadlatch Paddle

The 4590, 4591 Deadlatch Paddle is an ergonomically-friendly alternative to a knob or lever handle. Operate the MS+1890 Deadlock/Latch or 2190, 2290 Interconnected Deadbolt/Deadlatch with a simple push or pull.



## Cylinders

### Cylinder Pulls

The 4024, 4025, 4026 Cylinder Pulls are designed to operate Adams Rite MS1847 Deadlocks and 5017 Wood Door Deadlock.

### 4036 Mortise Cylinder

The 4036 Mortise Cylinder is a standard 1" long, 1-5/32" diameter cylinder that provides five-pin security with most Adams Rite locks or latches.

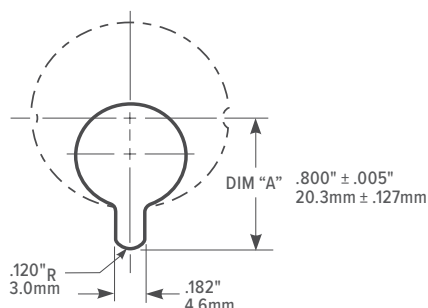
### 4066 Thumbturn

The 4066 Thumbturn interchanges with standard 1-5/32" diameter mortise cylinder and operates locks or latches without a key.

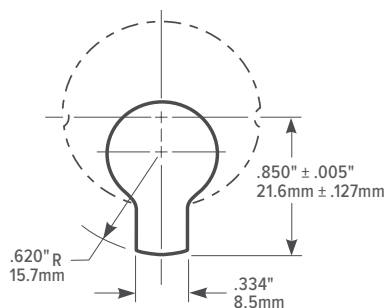
### Ms4043 Cylinder Guard

The MS4043 Cylinder Guard is a hardened-steel, freewheeling ring to protect cylinder from vandalism such as prying or twisting. Dimensions of MS cam to operate Adams Rite deadlocks, excluding 4070 Deadlock and 2331 Deadlock.

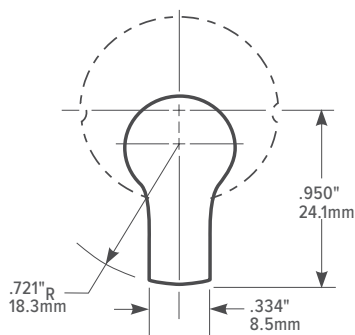
### Dimensions of MS® Cam



### Dimensions of cam to operate Adams Rite 4070 Deadlock



### Dimensions of cam to operate Adams Rite 2331 Deadlock



# Steel Hawk® 4300

## Electrified Deadlatch

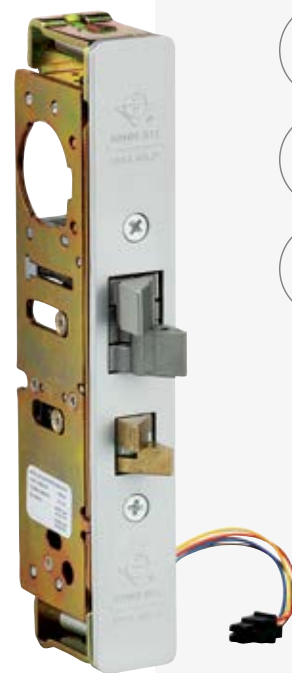
The Steel Hawk® 4300 Electrified Deadlatch is a non-handed, narrow backset, electrified deadlatch designed for easy integration with access control systems.

### Function

The 4300 Electrified Deadlatch seamlessly combines electrified locking hardware with access control while working within standard narrow stile aluminum entrance door preparations. Always operable from the inside via handle or paddle device. Entry via keyed mortise cylinder or access control device such as keypad or card reader. Fail secure lock with optional form "C" latch status monitor. The standard fail secure 4300 Electrified Deadlatch operates on 12, 16, or 24 VDC power and is rated for continuous duty. Units are equipped with a quick connect plug-in type connector. Interchangeable without stile modification for MS® Deadlocks or Adams Rite 4500 and 4900 Deadlatches. 1-3/4" [44.5 mm] minimum door thickness required.

### Operation

Turn key, apply voltage, or operate handle or paddle to release the spring-loaded latchbolt. Electrically-rated for continuous duty for timed applications. Easily interfaces with other access control system elements. Available in fail secure configuration only. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], and 1-1/2" [38.1 mm].

#### Case

Steel with corrosion-resistant plating. Measures 15/16" x 5-13/16" x depth [23.8 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

#### Latchbolt

Stainless steel. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.

#### Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

#### Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Both flat and radius faceplates are supplied. Flat faceplates can also be adjusted in the field for right or left beveled edge doors.

#### Strike

Pick from optional strikes. 4304 no-cut surface mounted strike for easy retrofits. Specify 4901-01 mortised-flush version when covering existing MS® deadlock preparation or for new applications. 4901-02 strike is available with radius profiles for pairs of doors and with extended lips of center-hung or thick door applications.

#### Standard Package

Individually boxed with strike plate, flat and radius faceplates, and mounting screws. Supplied with 4581 Universal Cam Plug to work with specified handles or paddle operators. Cylinder, paddle, handle available separately.

#### Shipping Weight

1-1/4 lbs [0.57 kg].

#### Product Note

The 4600M with monitoring switch option cannot be used in conjunction with the 4300 Electrified Deadlatch.

### Electrical

#### Voltage

Field-selectable to match power source of 12, 16, or 24 VDC.

#### Current Draw/Amps

0.44A at 12VDC  
0.458A at 16VDC\*  
0.23A at 24VDC

\*Required 16 VDC adapter (P/N VA 7400-16VDC)

### Options

- Backset, strike, and finish must be specified when ordering.
- Optional form "C" latch status monitoring available.

#### RITE Pack®

Pairs the non-handed, narrow backset, electrified deadlatch with multiple faceplates in a single package. Includes one electrified deadlatch and four faceplates: 2 flat faceplates, 2 radius faceplates: one each of 628 Clear and one 313 Dark bronze anodized finish.

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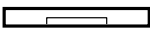


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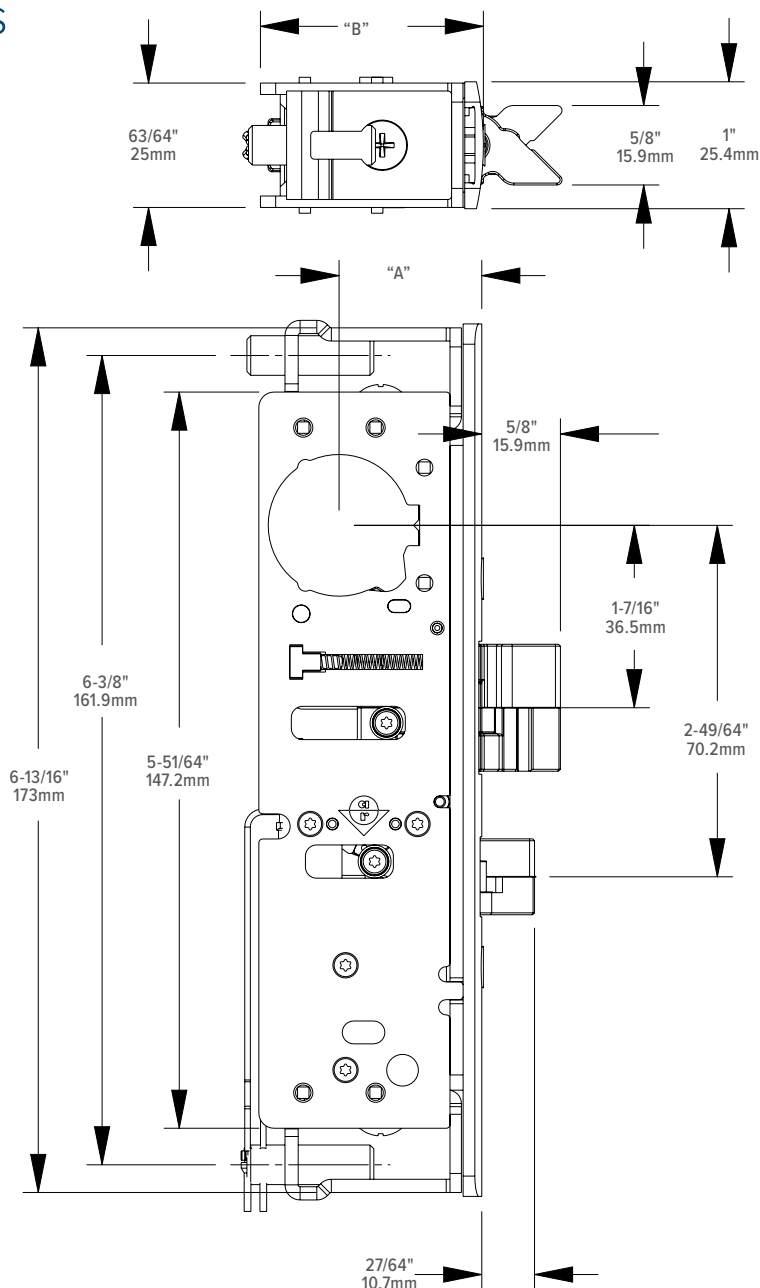
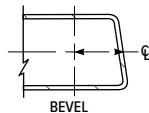
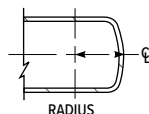
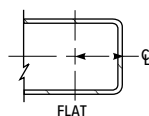
## Dimensions

BACKSET A	DIM. B
31/32" 24.6mm	1-19/32 40.5mm
1-1/8" 28.6mm	1-49/64" 44.8mm
1-1/2" 38.1mm	2-9/64" 54.4mm

ARMORED FACEPLATE 1" X 6-7/8"
 FLAT (INCLUDED) P/N 91-4300-01-XXX*
 RADIUS (INCLUDED) P/N 91-4300-01-XXX*
 RADIUS W/ WEATHERSTRIP P/N 91-4300-02-XXX*

\*Flat faceplate can be adjusted for right or left beveled edge doors. Radius weatherstrip is optional. 91-4300-01-XXX Faceplate kit includes both flat and radius faceplates.

HOW BACKSET IS MEASURED:  
CYLINDER  $\phi$



## How to Order

**Steel Hawk® 4300 Electrified Deadlatch:** Specify quantity and the following information. Order related products separately.

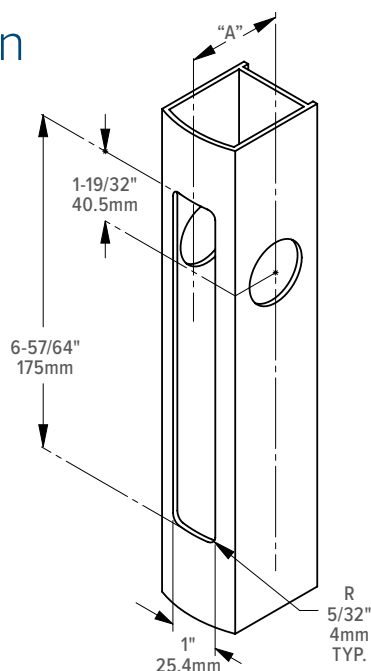
MODEL	BACKSET	MONITORING	STRIKE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
4300	-3	M	-2	01	-628
	2 31/32"	0 None	1 Surface Mount (4304)	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	3 1-1/8"	M Monitored	2 Mortised (4901) 4-5/8"	02 Radius/Standard Stiles*	335 Black Anodized
	4 1-1/2"			17 Flat/Center Hung 4" Jamb*	628 Clear Anodized
				21 Flat/Center Hung 4-1/2" Jamb*	

\* See ACCESSORIES for available 4901 strike options.

**4300 RITE Pack®:** Specify quantity and the following information. Order related products separately.

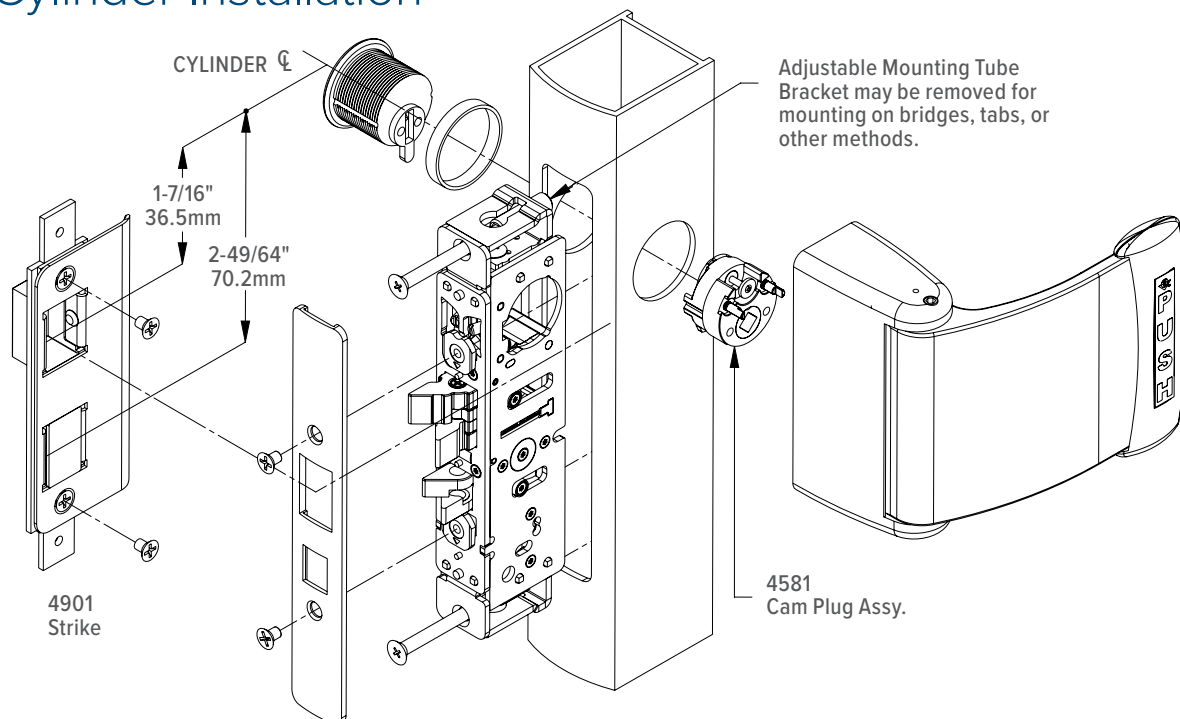
MODEL	BACKSET	MONITORING	STRIKE	RITE PACK
4300	-3	0	-1	RP
	2 31/32"	0 None	1 Surface Mount (4304)	
	3 1-1/8"		2 Mortised (4901) 4-5/8"	

## Stile Preparation



Adjustable mounting tube bracket may be removed for mounting on bridges, tabs, or other methods.

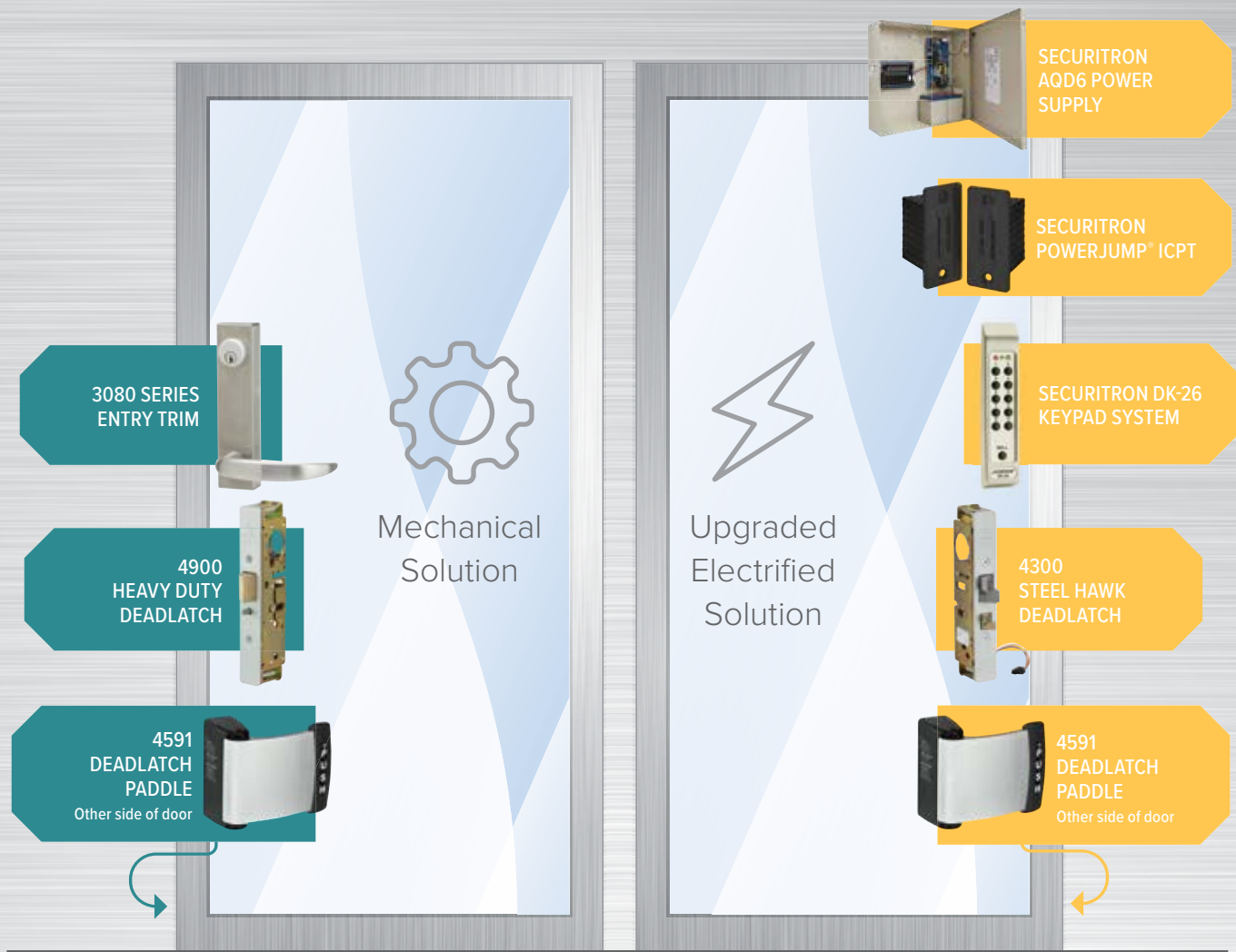
## Latch Paddle & Cylinder Installation



## Related Products

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	POWER
4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	3080 Series Entry Trim, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handles	4605 Transformer, 4603 Rectifier, PS-1 Power Supply, and 4612 Power Transfer Device



# Versatile Solutions. Dependable Options. Easy Upgrades.

Adams Rite products are designed to add detail and functionality to door openings. Our levers and paddles are designed to easily integrate with our deadlocks and deadlatches and are available in a range of architectural finishes and styles to complement any door.

Adams Rite makes it easy by offering products for narrow stile aluminum and glass openings that easily upgrade your door opening and improve safety and security where you need it most.

# 4510

## Standard Duty Deadlatch

4510 Standard Duty Deadlatches provide flexible traffic control during and after business hours.

### Function

The 4510 Series Standard Duty Deadlatch offers flexibility of traffic control during and after business hours. A reverse turn of the key while the bolt is held retracted retains the bolt to allow two-way traffic for healthcare, financial institutions, retail, and other applications that require free entrance at certain times and exit-only at other times. Interchangeable, without stile modification, with any MS1850S Deadlock of same backset and faceplate shape. They do not, however, provide the same maximum security level as the MS® Deadlock.

### Operation

Turn key or operate handle or paddle to retract spring-loaded latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard mortise cylinder with MS® cam, available separately. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

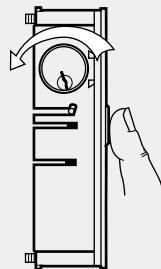
7/8" [22.2 mm], 31/32" [24.6 mm], 1-1/8" [28.6 mm] or 1-1/2" [38.1 mm].

#### Case

Steel with corrosion-resistant plating. Measures 1" x 5-13/16" x depth [25.4 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

#### Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.



#### Latchbolt

All metal with hardened steel internal pins. Handing is reversible without special tools. Measures 1/2" x 1" x 1/2" [12.7 mm x 25.4 mm x 12.7 mm] throw.

#### Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

#### Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm].

#### Strike

Standard strike furnished is 4902-01 for flat jamb where door closes flush or nearly flush. Available separately: radius strike for opposite stile in paired doors; longer strike (4901) to cover slot strike of MS lock; long lip strikes for center hung doors.

#### Standard Package

Individually boxed with strike and mounting screws. Cylinder, paddle, handle available separately.

#### Shipping Weight

1-1/4 lbs [.57 kg]. Also available in a 25-unit pack for volume customers. Please contact factory for more information.

### Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering.
- Available without faceplate or strike plate, select 4513.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

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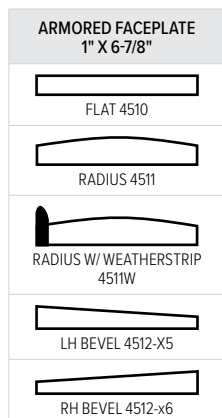
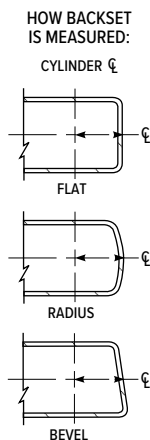
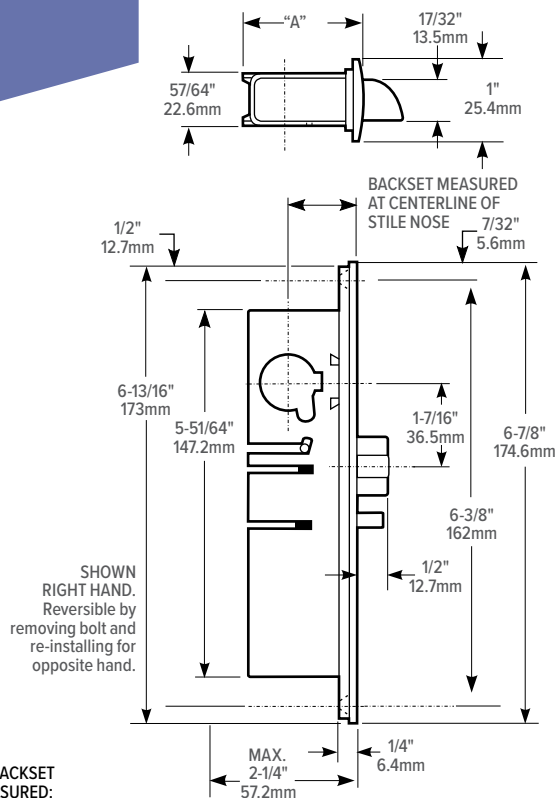
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All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

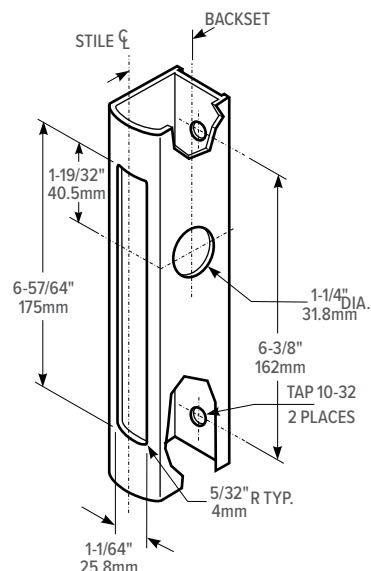
## Dimensions



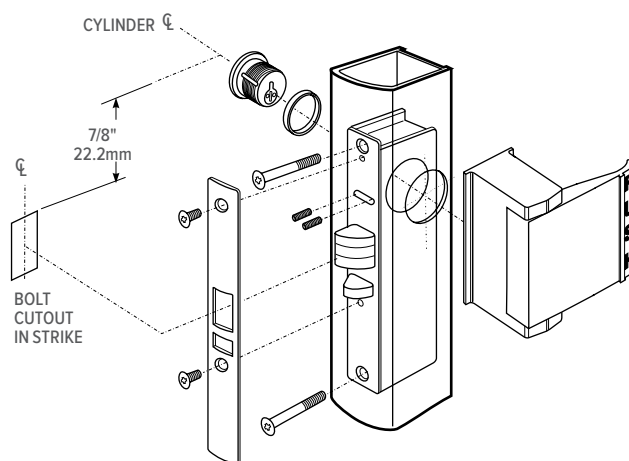
BACKSET	"A"
7/8" 22.2mm	1-33/64" 38.5mm
31/32" 24.6mm	1-19/32" 40.5mm
1-1/8" 28.6mm	1-49/64" 44.8mm
1-1/2" 38.1mm	2-9/64" 54.4mm

## Stile Preparation

Identical to MS1850S Series (Also see prep for 4590 Paddle)



## Latch Paddle & Cylinder Installation



## How to Order & Related Products

**4510 Standard Duty Deadlatch:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
451	1	-3	6	-2	01	-628
	0 Flat	1 7/8"	5 LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	1 Radius	2 31/32"	6 RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stiles	335 Black Anodized
	1W Radius w/ Weatherstrip	3 1-1/8"			17 Flat/Center Hung 4" Jamb	628 Clear Anodized
	2 Bevel	4 1-1/2"			21 Flat/Center Hung 4-1/2" Jamb	
	3 Without faceplate, without strike plate					

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	ELECTRIC STRIKES
4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	7100/7101, 7107/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes



# 4530

## Standard Duty Deadlatch

4530 Standard Duty Deadlatches provide flexible traffic control during and after business hours. Designed to retrofit into the prep of older MS1850 Deadlocks and discontinued 4250 Deadlatches.

### Function

The 4530 Standard Duty Deadlatch offers flexibility of traffic control during and after business hours. A reverse turn of the key while the bolt is held retracted retains the bolt to allow two-way traffic for healthcare, financial institutions, retail, and other applications that require free entrance at certain times and exit-only at other times. 4530 Deadlatches are designed to fit without alteration, the stile cutout for older MS1850 Series Deadlocks and discontinued 4250 Deadlatches of same backset.

### Operation

Turn key or operate handle to retract spring-loaded Latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

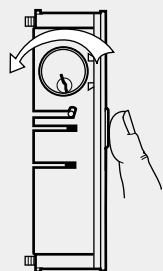
7/8" [22.2 mm], 31/32" [24.6 mm], or 1-1/8" [28.6 mm] only.

#### Case

Steel with corrosion-resistant plating. Measures 1" x 5-13/16" x depth [25.4 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

#### Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.



#### Latchbolt

All metal with hardened steel internal pins. Handing is reversible without special tools. Measures 1/2" x 1" x 1/2" [12.7 mm x 25.4 mm x 12.7 mm] throw.

#### Auxiliary Bolt

All metal. Deadlocks latchbolt to prevent "loiding" or case-knife entry.

#### Faceplate

Measures 1-1/4" x 7-13/32" [31.8 mm x 188.1 mm].

#### Strike

Standard strike furnished is 4901-01 for flat jamb.

#### Standard Package

Individually boxed with strike plate and mounting screws. Cylinder, paddle, handle available separately.

#### Shipping Weight

1-1/4 lbs [0.57 kg]

### Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering.
- Available without faceplate or strike plate, select 4533.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

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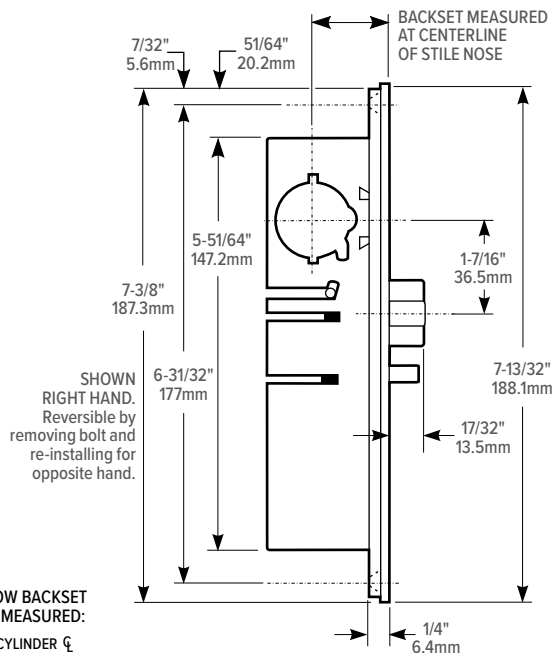
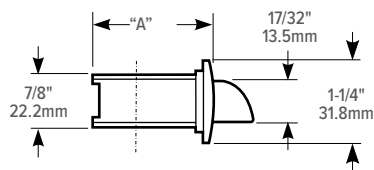
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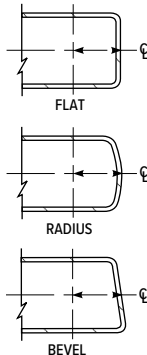
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## Dimensions



HOW BACKSET IS MEASURED:  
CYLINDER  $\varnothing$



ARMORED FACEPLATE  
1-1/4" x 7-13/32"

FLAT 4530

RADIUS 4531

LH BEVEL 4532-X5

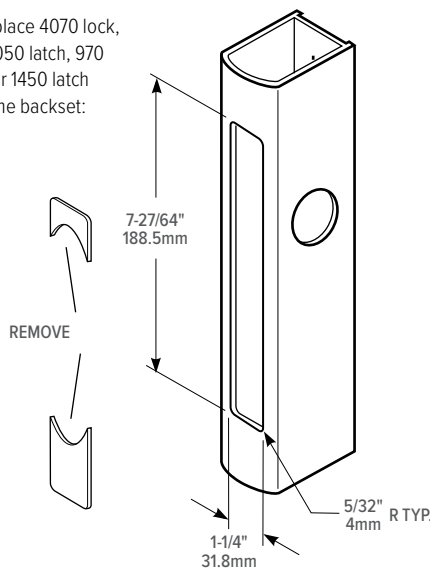
RH BEVEL 4532-X6

BACKSET	"A"
7/8" 22.2mm	1-33/64" 38.5mm
31/32" 24.6mm	1-19/32" 40.5mm
1-1/8" 28.6mm	1-49/64" 44.8mm

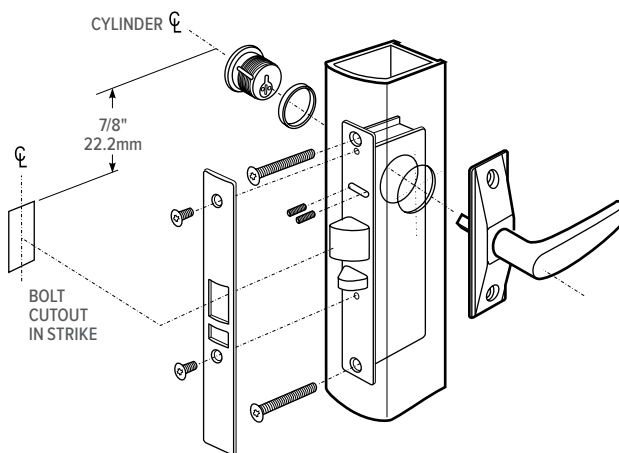
## Stile & Jamb Preparation

To replace old MS1850 lock or 4250 latch of same backset: **No Preparation Required**

To replace 4070 lock, old 4050 latch, 970 lock or 1450 latch of same backset:



## Latch Paddle & Cylinder Installation



## How to Order & Related Products

**4530 Standard Duty Deadlatch:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
453	1	- 3	6	- 1	01	- 628
	0 Flat	1 7/8"	5 LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	1 Radius	2 31/32"	6 RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stiles	335 Black Anodized
	2 Bevel	3 1-1/8"			17 Flat/Center Hung 4" Jamb	628 Clear Anodized
	3 Without faceplate, without strike plate				21 Flat/Center Hung 4-1/2" Jamb	

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	ELECTRIC STRIKES
4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes

# 4781

## Two-Point Deadlatch with Paddle

The 4781 Two-Point Deadlatch latches to header and threshold allowing both door leaves to remain active. It is designed for paired out-swinging narrow stile doors, but is also suitable for single doors.

### Function

Designed for paired out-swinging narrow stile doors, but also suitable for single doors. Instead of operating a conventional horizontal-throw latchbolt, the 4781 Two-Point Deadlatch latches to header and threshold. This allows both door leaves to be "active". There is no need to pin one door with flush bolts or other devices. The paddle is a modified version of the 4591 Deadlatch Paddle (see TRIM) and the concealed vertical rod mechanism is the same as used in Adams Rite's 8600 Series Exit Devices (see EXIT DEVICES). Note however, that the 4781 Two-Point Deadlatch is not intended to substitute for an exit device, which must have a door-spanning bar.

### Operation

**Inside:** Push paddle to unblock top bolt and withdraw bottom bolt. Continuing to push will open the door in a very natural, ergonomically-friendly motion. Paddle stroke is approximately 1-1/2" [38.1 mm] at extreme end. Rod adjustment allows paddle (centerline) to be mounted at any height from 30 to 44 inches above the finished floor.

**Outside:** If key entry operation is required, any standard mortise cylinder with MS® cam can be installed through an 8650 Cylinder Escutcheon. 3080 Entry Trim compatible with Adams Rite exit devices can be specified in the version used for CVR devices.



### Features

#### Paddle Dogging

Turning hex screw in paddle escutcheon holds paddle down, leaving door free-swinging.

#### Strike

A flanged post installed on the header has generous location adjustment to allow for door misalignment, sag, bumpers, etc. Designed to prevent forced entry by bowing the door.

#### Top Bolt

Similar to door latches on some automobiles and aircraft, the U-shaped bolt wraps around the strike post to deadlock position, which also deadlocks the bottom bolt through a gear train at the center of the rod assembly.

#### Threshold Bolt

Stainless hexagonal steel bolt requires only a 1/2" [12.7 mm] diameter hole in threshold for a strike.

#### Door Size

Standard unit will fit doors up to 66" [1676.4 mm] above the paddle height. 110" [2794 mm] door if paddle is at max 44" [1117.6 mm] height.

#### Standard Package

Individually boxed with mounting screws and installation instructions.

#### Shipping weight

3 lbs [1.36 kg].

### Options

- Can be exit only or allow key access from outside with use of 8650 Cylinder Escutcheon. 3080 Entry Trim can also be specified in the version used for CVR devices.
- For taller doors, order 8655 Tall Door Kit, which allows up to 97" above paddle.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized, US26D (626) Satin chrome.

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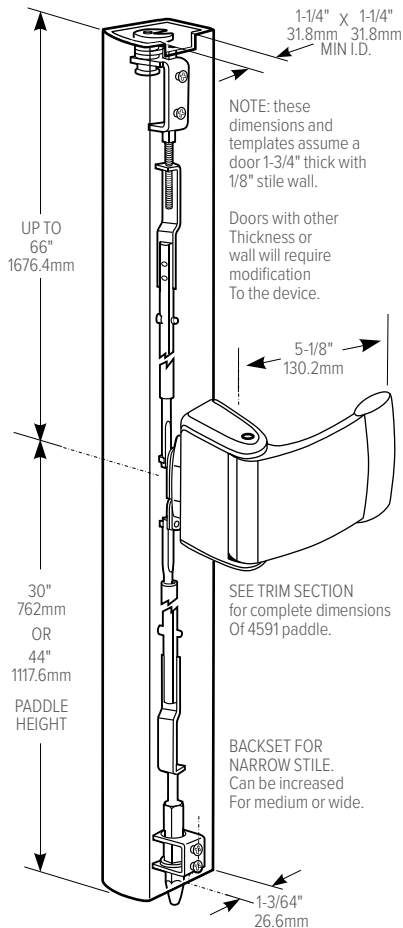
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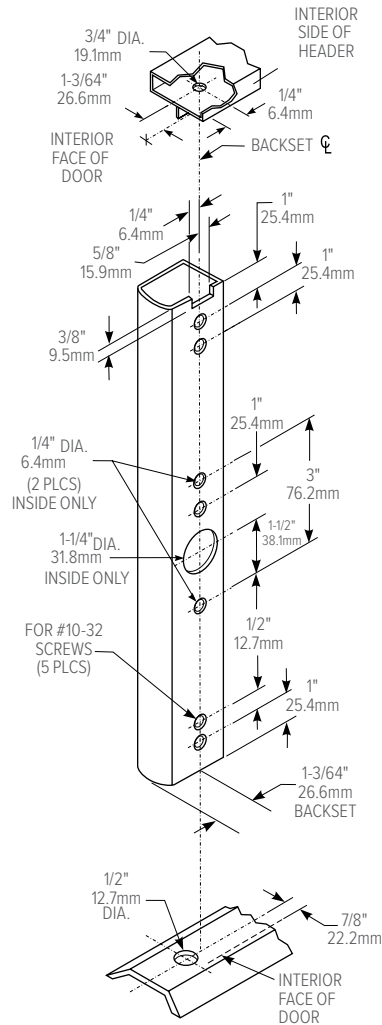
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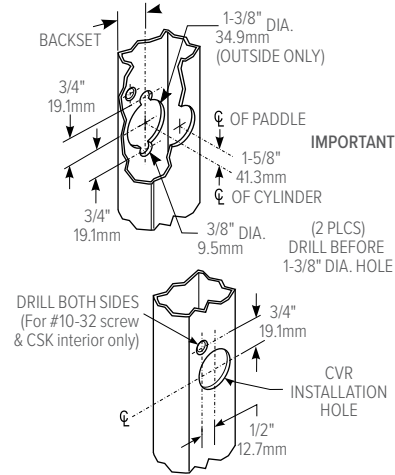
## Dimensions



## Door Preparation

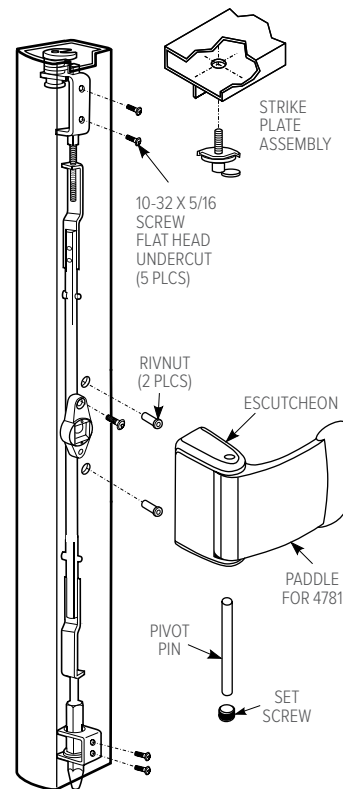


### with 8650 Cylinder Escutcheon\*



\*OTHER CYLINDER ESCUTCHEONS for use with 17mm profile cylinders (in 44 or 55mm thick doors only) are also available and require different door prep than shown.

## Installation



## How to Order & Related Products

**4781 Two-Point Deadlatch with Paddle:** Specify quantity and the following information. Order related products separately.

MODEL	T	OPERATION	PADDLE FINISH
4781	T	- 021	- 628
	T Top Rod Only	021 Push to Left	313 Dark Bronze Anodized
	— Standard Rod	041 Push to Right	335 Black Anodized
			628 Clear Anodized
			US26D Satin Chrome

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM
8650 Cylinder Escutcheon, 8655 Tall Door Kit	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder	3080 Series Entry Trim

## 4900

## Heavy Duty Deadlatch

4900 Heavy Duty Deadlatch provides flexible traffic control and easy installation.

## Function

Flexibility of traffic control and easy installation is offered by 4900 Series Heavy Duty Deadlatches. A key-controlled bolt hold-back feature allows for two-way traffic for applications which require free entrance at certain times and exit-only at other times. This allows a "locked" entrance to be used as an exit by visitors already in the building. 1-3/4" [44.5 mm] minimum door thickness required. Interchangeable, without stile modification, with any MS1850S deadbolt of same backset and faceplate shape. Also retrofits to existing 4510 and discontinued 4700 Deadlatch preparations.

## Operation

Turn key or operate handle or paddle to retract spring-loaded latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



## Features

**Cylinder Backset**

31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" [38.1 mm].

**Case**

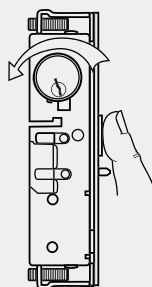
Steel with corrosion-resistant plating. Measures 7/8" x 5-13/16" x depth [22.2 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page). Screw-fastened tube spacer brackets allow for cleaner removal when tab mounting.

**Bolt Holdback**

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.

**Latchbolt**

Solid brass. Handing is easily reversible without special tools. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.

**Auxiliary Linchpin**

Stainless steel. Deadlocks latch bolt to prevent "loiding" or case-knife entry.

**Faceplate**

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Both flat and radius faceplates are supplied. Flat faceplates can also be adjusted in the field for right or left beveled edge doors.

**Strike**

Standard strike furnished is 4902 for flat jamb where door closes flush or nearly flush. Specify 4901 for retrofit installations. Also available: radius strike for opposite stile in paired doors and long lip strikes for center-hung doors.

**Standard Package**

Individually boxed with strike plate, flat and radius faceplates, and mounting screws. Cylinder, paddle, handle available separately.

**Shipping Weight**

1-1/4 lbs [0.57 kg].

## Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering. See 4920AN Heavy Duty Deadlatch (ANSI Size) for wood and hollow metal door applications.
- Available without faceplate or strike plate, select 4913.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

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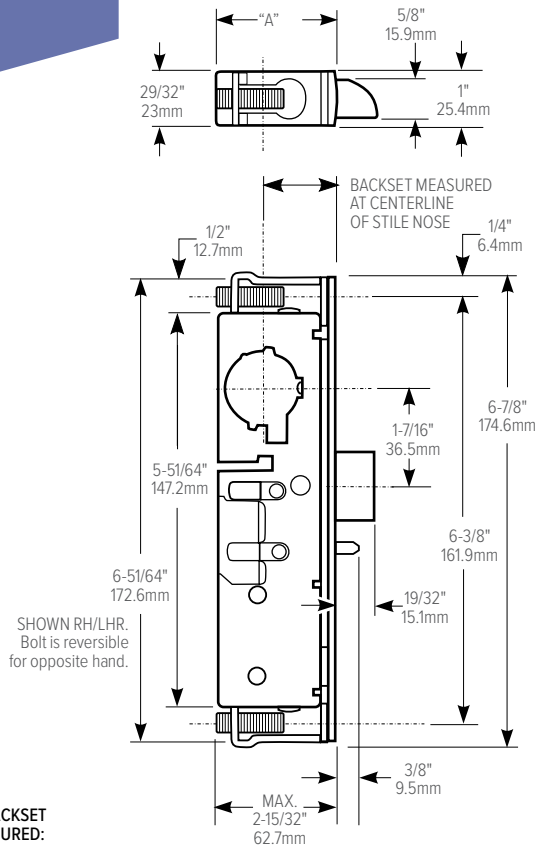
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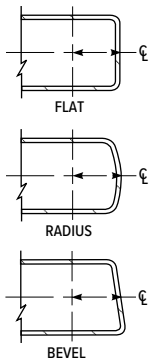
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## Dimensions



HOW BACKSET IS MEASURED:  
CYLINDER  $\varnothing$



**ARMORED FACEPLATE**  
1" X 6-7/8"

**FLAT**  
P/N 24-0137-01-XXX

**RADIUS**  
P/N 24-0137-02-XXX

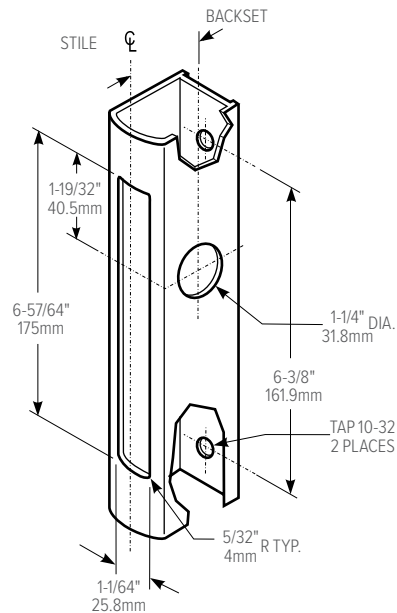
**RADIUS W/ WEATHERSTRIP**  
P/N 24-0137-03-XXX

BACKSET	"A"
31/32" 24.6mm	1-5/8" 41.3mm
1-1/8" 28.6mm	1-49/64" 44.8mm
1-1/2" 38.1mm	2-9/64" 54.4mm

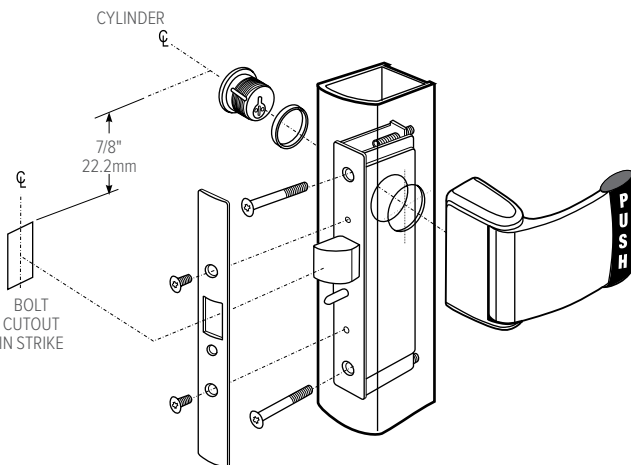
Flat faceplate can be adjusted for right or left beveled edge doors.

## Stile Preparation

Identical to MS1850A or MS1850S Series  
(See also prep for 4591 paddle).



## Latch Paddle & Cylinder Installation



## How to Order & Related Products

**4900 Heavy Duty Deadlatch:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE SIZE	STRIKE SHAPE/LIP LENGTH	FACEPLATE FINISH
49	00	- 3	5	- 2	01	- 628
	00 Standard	2 31/32"	5 LH or RHR	1 Mortised (4901) 4-5/8"	01 Flat/Standard Jamb	313 Dark Bronze Anodized
	11W Radius with Weatherstrip	3 1-1/8"	6 RH or LHR	2 Mortised (4902) 2-5/8"	02 Radius/Standard Stile	335 Black Anodized
	13 Without faceplate, without strike plate	4 1-1/2"			17 Flat/Center Hung 4" Jamb	628 Clear Anodized
					21 Flat/Center Hung 4-1/2" Jamb	

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	ELECTRIC STRIKES
4104 Mounting Bridge, 91-0965 Mounting Kit for radius door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer, 4901, 4902 Deadlatch Strikes	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes



# 4920AN

## Heavy Duty Deadlatch (ANSI Size)

4920AN Heavy Duty Deadlatch provides flexible traffic control and easy installation for wood or hollow metal doors.

### Function

Flexibility of traffic control and installation is offered by 4920AN Heavy Duty Deadlatches. A key-controlled bolt hold-back feature allows for two-way traffic for applications which require free entrance at certain times and exit-only at other times. This allows a "locked" entrance to be used as an exit by visitors already in the building. 1-3/4" [44.5 mm] minimum door thickness required. Interchangeable, without stile modification, with any MS1850SN Deadlock of same backset and faceplate shape. Replaces 4520 and discontinued 4720 ANSI Deadlatches. For hollow metal or wood doors prepared for hardware according to the specifications of the American National Standards Institute (ANSI).

### Operation

Turn key or operate handle or paddle to retract spring-loaded latchbolt. To hold bolt retracted, push it in and secure by reverse turn of key. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

1-1/2" [38.1 mm] or 2-3/4" [69.9 mm] only.

#### Case

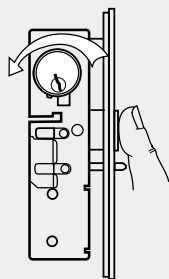
Steel with corrosion-resistant plating. Measures 7/8" x 5-13/16" x depth [22.2 mm x 147.6 mm x depth]. Depth varies by backset (see table on back of page).

#### Bolt Holdback

While bolt is held fully retracted, a reverse turn of the key retains the bolt, allowing the door to be free swinging.

#### Latchbolt

Solid brass. Handing is easily reversible without special tools. Measures 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw.



#### Auxiliary Linchpin

Stainless steel. Deadlocks Latchbolt to prevent "loiding" or case-knife entry.

#### Faceplate

Measures 1-1/4" x 8" [31.8 mm x 203.2 mm] armored flat faceplate can also be adjusted in the field for right or left beveled edge doors.

#### Strike

4506-02 Strike furnished to ANSI preparation specifications for flat jamb. Stainless steel, US32D Satin finish (630). Available without strike (-000).

#### Standard Package

Individually boxed with strike plate, faceplate, and mounting screws. Cylinder, paddle, handle available separately.

#### Shipping Weight

1-1/4 lbs [0.57 kg].

### Options

- Backset, faceplate shape, strike, handing, and finish must be specified when ordering. See 4900 Heavy Duty Deadlatch for aluminum stile door applications.
- Available without faceplate and strike, select 4923AN.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

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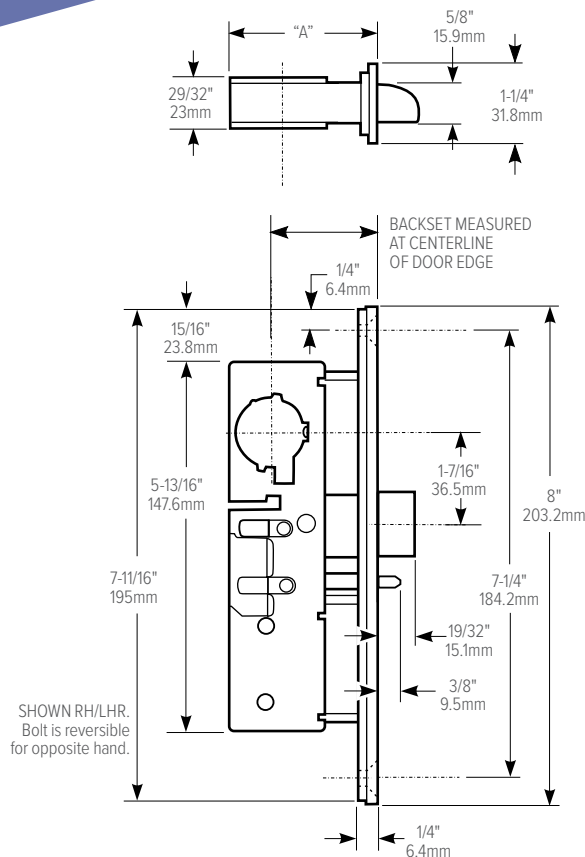
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## Dimensions



HOW BACKSET IS MEASURED:

CYLINDER  $\varnothing$

ARMORED FACEPLATE  
1-1/4" X 8"

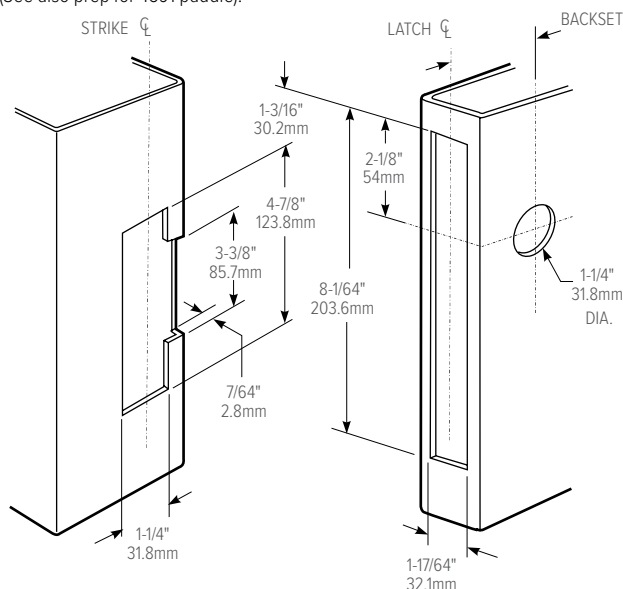
FLAT

Flat faceplate can be adjusted for right or left beveled edge doors.

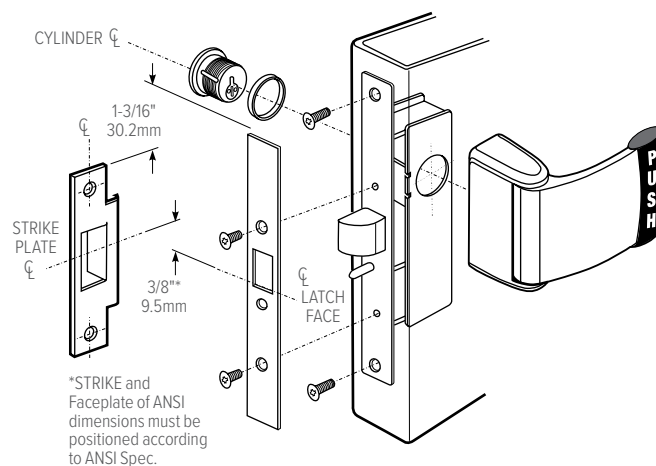
BACKSET	"A"
1-1/2" 38.1mm	2-9/64" 54.4mm
2-3/4" 69.9mm	3-25/64" 86.1mm

## Stile Preparation

Identical to MS1850SN Series  
(See also prep for 4591 paddle).



## Latch Paddle & Cylinder Installation



\*STRIKE and Faceplate of ANSI dimensions must be positioned according to ANSI Spec.

## How to Order & Related Products

**4920AN Heavy Duty Deadlatch (ANSI Size)** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE	BACKSET	HANDING	STRIKE	FACEPLATE FINISH
492	OAN	4	6	- 602	- 313
	OAN Flat	4 1-1/2"	5 LH or RHR	000 Less Strike	313 Dark Bronze Anodized
	3AN Without faceplate, without strike plate	5 2-3/4"	6 RH or LHR	602 4506 Strike	335 Black Anodized
					628 Clear Anodized

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	TRIM	ELECTRIC STRIKES
4506-02 Deadlatch Strikes	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 4560, 4565 Deadlatch Handles, 4568, 4569 Eurostyle Deadlatch Handles, 4590, 4591 Paddles, 4600 Deadlatch Handle	7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes

# Options & Accessories

Adams Rite Deadlatches can be ordered with a variety of related products including strike plates, cylinder accessories, electric strikes and trim. Different deadlatches have different installation and cylinder requirements. Please refer to product pages for more information on all available deadlatch types, functions, installation requirements and complete How-to-Order guides. For more detailed information on any of the products listed below please refer to the corresponding section of this catalog.

## Accessories

### 4901, 4902 Deadlatch Strikes

4901, 4902 Deadlatch Strikes add aesthetics and finish to strike cutouts in jambs. These strikes offer a choice of mounting methods: a backup mounting plate included with the 4901 and 4902 allows installation flush in a hollow section jamb. 4506-02 ANSI strike available for wood or steel jambs. See images on next page.

## Cylinders

### 4036 Mortise Cylinder

The 4036 Mortise Cylinder is a standard 1" long, 1-5/32" diameter cylinder that provides five-pin security with most Adams Rite locks or latches.

### 4066 Thumbturn

The 4066 Thumbturn interchanges with standard 1-5/32" diameter mortise cylinder and operates locks or latches without a key.

### MS 4043 Cylinder Guard

The MS4043 Cylinder Guard is a hardened-steel, free-swiveling ring to protect cylinder from vandalism such as prying or twisting.

## Electric Strikes

### 7100, 7400 Series Electric Strikes

The 7100 Series Electric Strikes and Ultraline 7400 Series Electric Strikes are designed for use with Adams Rite deadlatches or cylindrical locksets with a variety of latchbolt projections. An assortment of faceplate dimensions is available for use in hollow metal, wood or aluminum applications.

## Power

### 4603 Rectifier

Converts low voltage AC current to DC of same voltage. Installs in low voltage line between transformer and strike. Full wave bridge type. Rated 2 Amps. (200 PIV).

### 4605 Transformer

Converts 120VAC to 12VAC/24VAC. Rated 40 Volt-amp output assures plenty of power for strike release.

### 4606 Transformer

Converts 120VAC current to 24VAC. Plugs into standard wall outlet.

### 29-0218 Piezo Horn

Provides for audible indication of when a DC strike is energized. Operates with 12 VDC, 16 VDC, or 24 VDC strikes.

### 4612 Power Transfer Device

The 4612 Power Transfer Device channels electrical wiring from the door frame into the door itself. This powers electric strikes, locks, exit bars, and more on door hung with butt-type hinges.

### PS -1 Power Supply

One amp linear power supply with integrated battery backup circuitry for access control devices.

## Trim

### 3080 Series Entry Trim

The 3080 Series Entry Trim provides outside activation for doors with any type of Adams Rite deadlatch or exit device. The locked handle is protected from vandalism and forced entry with a breakaway clutching mechanism.

### 3090 Keyless Entry

A battery-operated keyless entry control device, the eForce-150 3090 Keyless Entry provides access control for Adams Rite deadlocks, deadlatches, and exit devices for aluminum stile, steel, and wood door applications.

The eForce 3090P (Prox) and 3090C (iCLASS) Keyless Entries provide maximum security with either HID® Prox or iCLASS contactless card reader.

### Deadlatch Handles

The 4560 and 4565 Deadlatch Handles and 4568 and 4569 Euro Deadlatch Handles easily unlock the 4300, 4500 and 4900 Series Deadlatches. These handles fit solidly into the cylinder hole of the latch.

### Deadlatch Paddles

The 4590, 4591 Deadlatch Paddle is an ergonomically-friendly alternative to a knob or lever handle. Operate the 4300, 4500 and 4900 Series Deadlatches with a simple push or pull.

### 4600 Heavy Duty Deadlatch Handle

The 4600 Heavy Duty Designer Deadlatch Handles are designed with a patented adjustable drive mechanism to operate the 4300, 4500, and 4900 Series Deadlatches.

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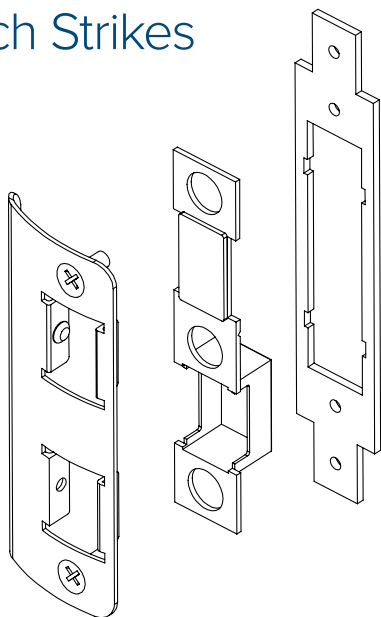
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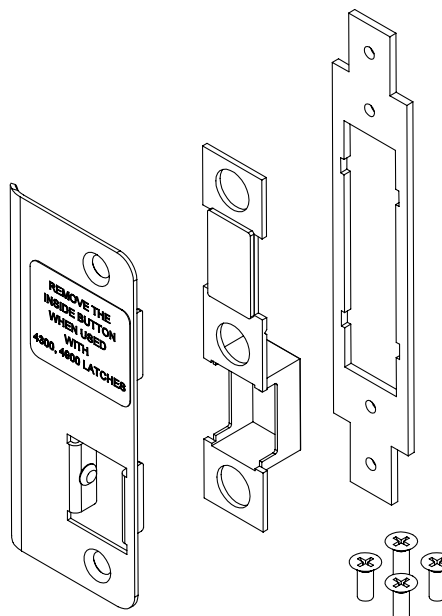
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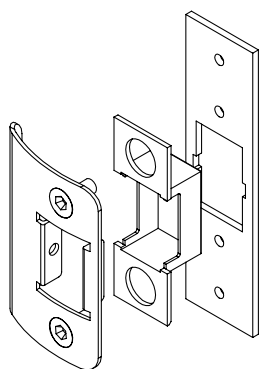
## 4901, 4902 Deadlatch Strikes



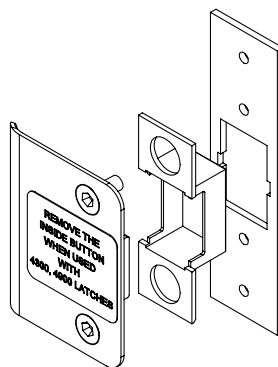
4901-02  
RADIUS STRIKE



4901-01  
FLAT STRIKE



4902-02  
RADIUS STRIKE



4902-01  
FLAT STRIKE

# 1870 Series

## Cylinder-Operated Flushbolt

Designed for greater key control, the 1870 Cylinder-Operated Flushbolt prevents accidental locking of the inactive leaf of narrow stile aluminum paired doors. May be installed to lock at threshold or at header.

### Function

Designed for use instead of conventional flip-lever operated flushbolts, 1870 Cylinder-Operated Flushbolts give building management key control of the inactive leaf of paired narrow stile aluminum doors. Prevents casual locking of the inactive leaf by unauthorized persons. Uses same basic over-center action mechanism as MS® pivoted bolt deadlocks. Recommended for installation at both top and bottom of inactive door with MS1850S MS Deadlock in active door for greatest security. May be installed to lock at threshold or at header.

### Operation

360° turn of key throws or retracts the hex-section bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately, or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

31/32" [24.6 mm] or 1-1/8" [28.6 mm] only.

#### Cylinder Height

Standard length (cylinder center to retracted bolt tip) is 12" [304.8 mm] with  $\pm 1\text{-}1/4"$  [31.8 mm] adjustment. Please contact factory for other lengths available by special order.

#### Case

Steel with corrosion-resistant plating. Measures 1" x 6" x depth [25.4 mm x 152.4 mm x depth]. Depth varies by backset (see table on back of page).

#### Bolt

Stainless steel. Hexagonal 3/8" [9.5 mm] flat to flat, with 11/16" [17.5 mm] throw.

#### Strike

1/2" [12.7 mm] diameter hole in metal threshold or header is suitable. For wood thresholds, 4005 Strike is available separately.

#### Faceplate

Measures 1" x 6-7/8" [25.4 mm x 174.6 mm]. Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

#### Standard Package

Flushlock mechanism boxed with actuator arm attached, rod/bolt assembly unattached. Stainless steel bolt guide, mounting screws, and installation instructions included. Cylinder available separately.

#### Shipping Weight

1-1/4 lbs [.57 kg].

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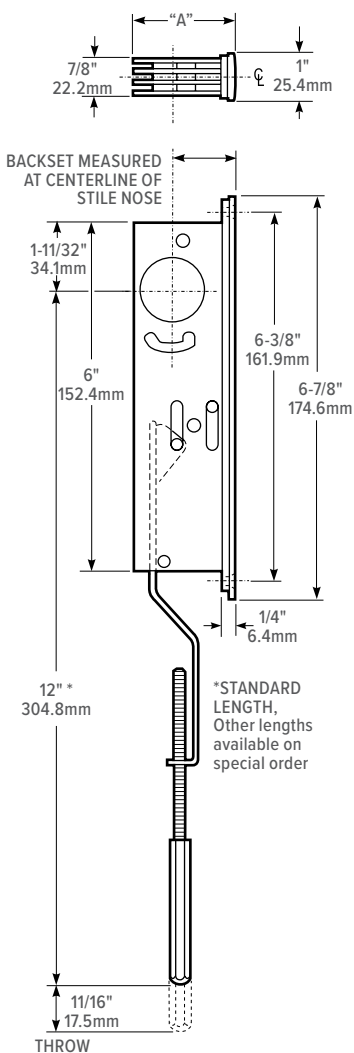
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## Dimensions



### ARMORED FACEPLATE 1" X 6-7/8"

FLAT 1870

RADIUS 1871

RADIUS W/ WEATHERSTRIP  
1871W

LH BEVEL 1872-X5

RH BEVEL 1872-X6

BACKSET

"A"

31/32"

24.6mm

1-5/8"

41.3mm

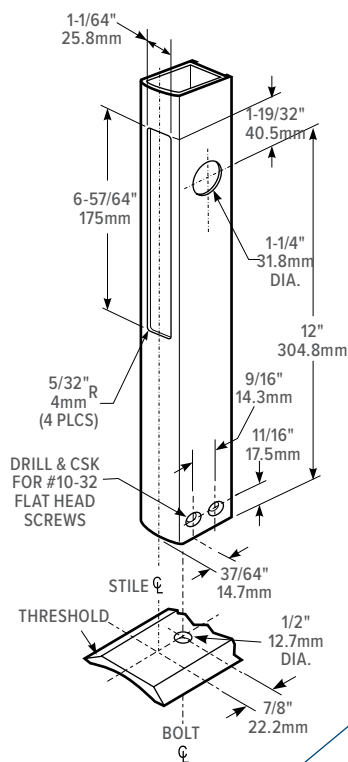
1-1/8"

28.6mm

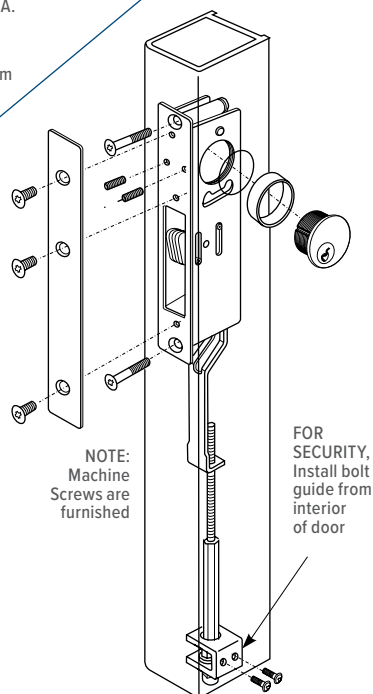
1-25/32"

45.2mm

## Stile Preparation

For installation locking threshold.  
Invert for header locking.

## Lock & Cylinder Installation



## How to Order & Related Products

**1870 Cylinder-Operated Flushbolt** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE SHAPE	BACKSET	HANDING	FINISH
1870	0	- 2	0	- 628
	0 Flat	2 31/32"	1 Non-Handed*	313 Dark Bronze Anodized
	1 Radius	3 1-1/8"	5 LH or RHR	335 Black Anodized
	1W Radius with weatherstrip		6 RH or LHR	628 Clear Anodized
	2 Bevel			

\*Any flat or radius faceplate.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	SPECIAL ORDER OPTIONS
4005 strike for wood threshold 4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	Other cylinder height / length available by special order. Please contact factory.

# 1870HM

## Cylinder-Operated Flushbolt

Designed for greater key control, the 1870HM Cylinder-Operated Flushbolt prevents accidental locking of the inactive leaf of paired hollow metal doors. May be installed to lock at threshold or at header.

### Function

Designed for use instead of conventional flip-lever operated flushbolts, 1870HM Cylinder-Operated Flushbolts give building management key control of the inactive leaf of paired hollow metal doors. Prevents casual locking of the inactive leaf by unauthorized persons. Uses same basic over-center action mechanism as MS® pivoted bolt deadlocks. Recommended for installation at both top and bottom of inactive door with MS1850SN MS Deadlock in active door for greatest security. May be installed to lock at threshold or at header.

### Operation

360° turn of key throws or retracts the hex-section bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately, or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



### Features

#### Cylinder Backset

1-1/4" [31.8 mm] only.

#### Cylinder Height

Standard length (cylinder center to door end) is 13-1/2" [342.9 mm]. Please contact factory for other lengths available by special order.

#### Case

Steel with corrosion-resistant plating.  
Measures 7/8" x 6" x 1-21/32"  
[22.2 mm x 152.4 mm x 42.1 mm].

#### Bolt

Stainless steel. Hexagonal 3/8" [9.5 mm]  
flat to flat, with 11/16" [17.5 mm] throw.

#### Strike

2-1/4" x 15/16" [57.2 mm x 23.8 mm]  
strike is supplied.

#### Faceplate

Measures 1" x 8" [25.4 mm x 203.2 mm].  
Available in choice of 313 Dark  
bronze anodized, 335 Black  
anodized, 628 Clear anodized.

#### Standard Package

Flushlock mechanism boxed with actuator  
arm attached, rod/bolt assembly unattached.  
Stainless steel bolt guide, mounting  
screws, and installation instructions  
included. Cylinder available separately.

#### Shipping Weight

1-1/4 lbs [.57 kg].

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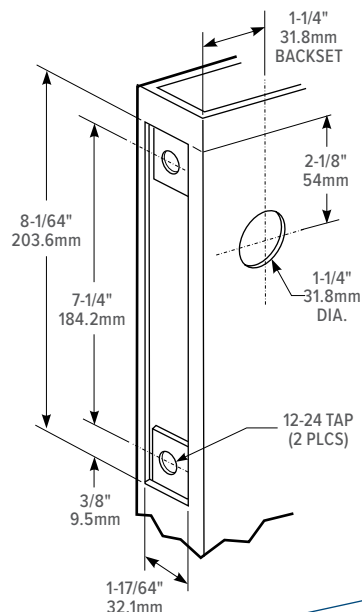
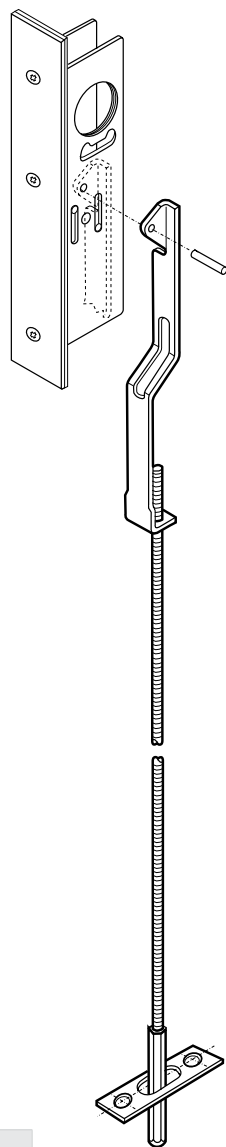
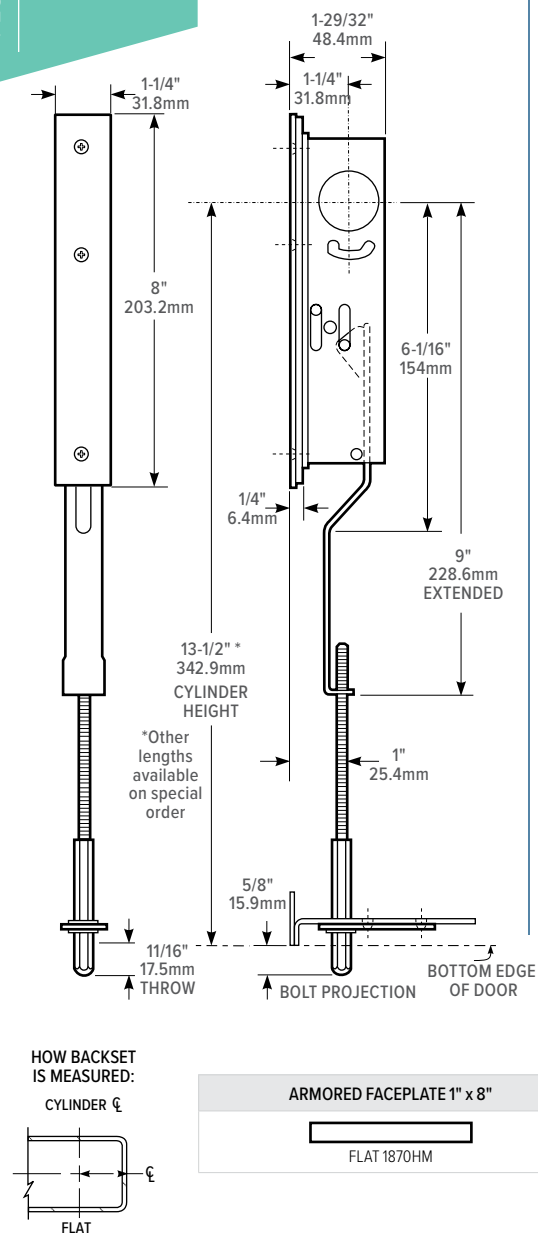
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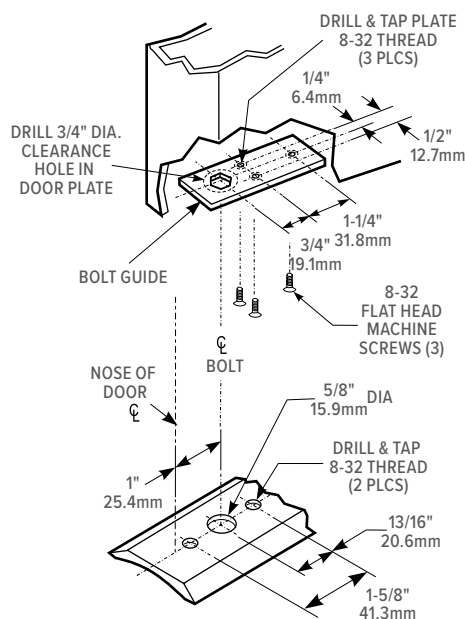
## Dimensions

## Door Preparation

For installation locking threshold.  
Invert for header locking.



## Lock & Cylinder Installation



## How to Order & Related Products

**1870HM Cylinder-Operated Flushbolt:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE SHAPE	FINISH
187	OHM	- 628
	OHM Flat	313 Dark Bronze Anodized
		335 Black Anodized
		628 Clear Anodized

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDERS	SPECIAL ORDER OPTIONS
4104 Mounting Bridge, 91-0965 Mounting Kit for radiused door, 91-0966 Mounting Kit for beveled door, 26-00090XX Tube Spacer	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	Other cylinder height / length available by special order. Please contact factory.



1877

## Cylinder-Operated Flushbolt

Designed for greater key control, the 1877 Cylinder-Operated Flushbolt prevents accidental locking of the inactive leaf of paired wood doors. May be installed to lock at threshold or at header.

### Function

Designed for use instead of conventional flip-lever operated flushbolts, 1877 Cylinder-Operated Flushbolts give building management key control of the inactive leaf of paired wood doors. Prevents casual locking of the inactive leaf by unauthorized persons. Uses same basic over-center action mechanism as MS® pivoted bolt deadlocks. Recommended for installation at both top and bottom of inactive door with MS1837 MS Two-Point Deadlock in active door for greatest security. May be installed to lock at threshold or at header.

### Operation

360° turn of key throws or retracts the hex-section bolt. Key can be removed only when bolt is in a positively locked or unlocked position. Lock accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder, available separately, or thumbturn such as the 4066 Thumbturn, available separately. Lock accepts cylinder from either or both sides.



## Features

#### Cylinder Backset

1-1/4" [31.8 mm] only.

#### Cylinder Height

Standard length (cylinder center to door end) is 13-1/2" [342.9 mm]. Please contact factory for other lengths available by special order.

#### Case

Steel with corrosion-resistant plating.  
Measures 1" x 6" x 1-29/32"  
[25.4 mm x 152.4 mm x 48.4 mm].

#### Bolt

Stainless steel. Hexagonal 3/8" [9.5 mm]  
flat to flat, with 11/16" [17.5 mm] throw.

#### Strike

2-1/4" x 15/16" [57.2 mm x 23.8 mm]  
strike is supplied.

#### Armored Faceplate

Measures 1-1/4" x 15-5/8" [31.8 mm x 396.9 mm].  
Available in choice of 313 Dark bronze  
anodized, 628 Clear anodized, US3 (605)  
Bright brass, US26D (626) Satin chrome.

#### Standard Package

Flushlock mechanism boxed with actuator  
arm attached, rod/bolt assembly unattached.  
Stainless steel bolt guide, mounting  
screws, and installation instructions  
included. Cylinder available separately.

#### Shipping Weight

2 lbs [0.91 kg]

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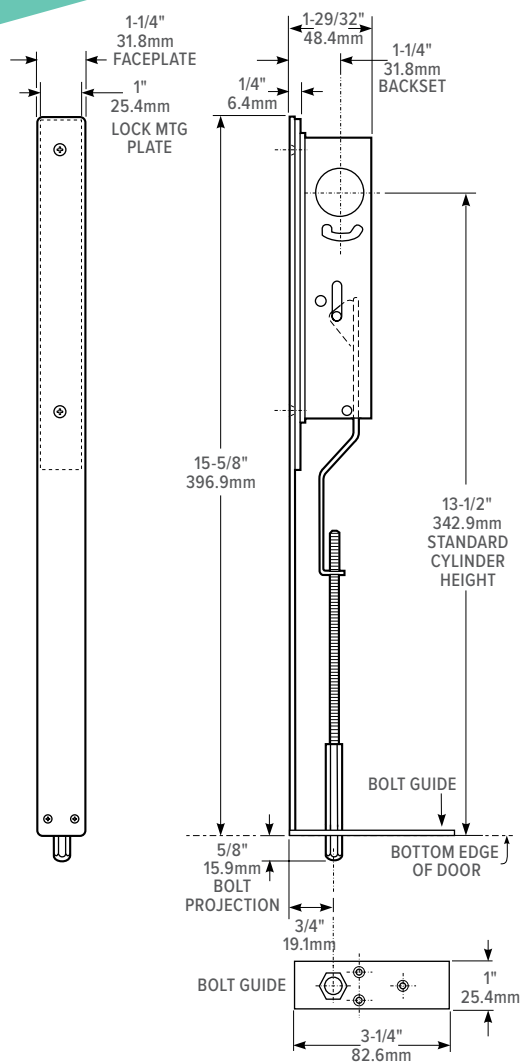
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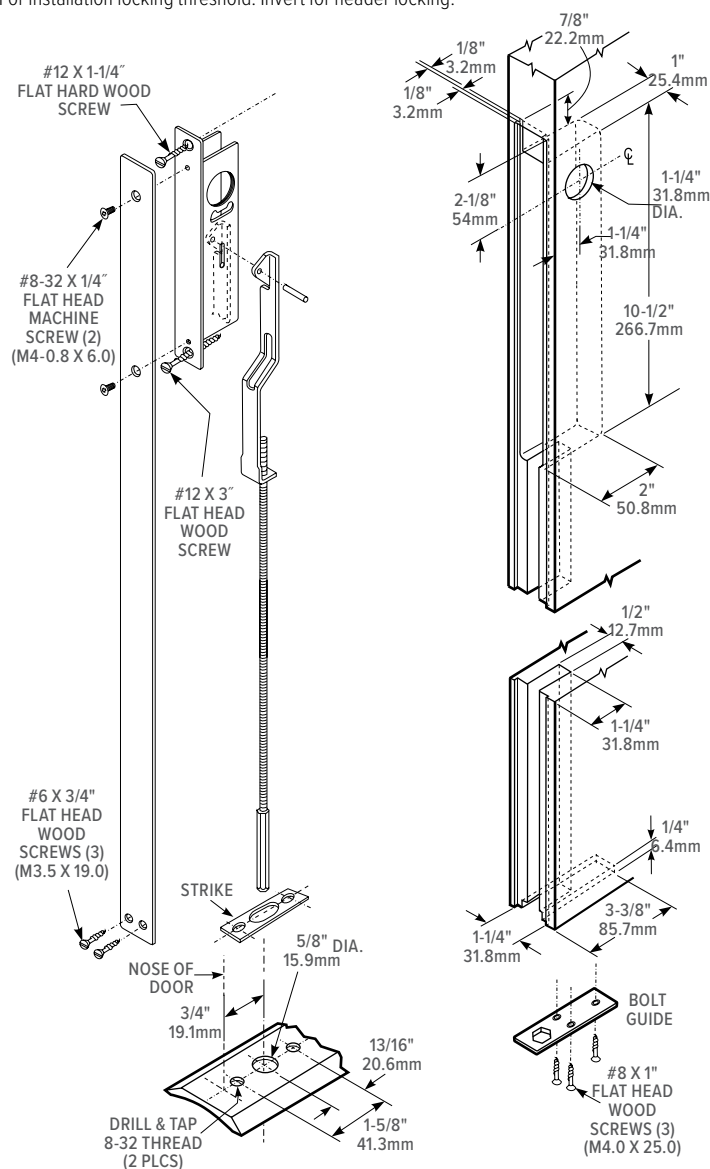
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## Dimensions



## Installation

For installation locking threshold. Invert for header locking.



## How to Order & Related Products

**1877 Cylinder-Operated Flushbolt:** Specify quantity and the following information. Order related products separately.

MODEL	FINISH
1877	- 628
	313 Dark Bronze Anodized
	605 Bright Brass
	626 Satin Chrome
	628 Clear Anodized

**RELATED** When purchasing this product, please consider the following related products, available separately:

CYLINDERS	SPECIAL ORDER OPTIONS
Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder, 4066 Thumbturn	Other cylinder height / length available by special order. Please contact factory.

# MS1880

## Two-Point Flushbolt

MS1880 Two-Point Flushbolts offer greater convenience than flip-lever flushbolts. With one operation, they provide security and reduce human error.

### Function

Used instead of flip-lever flushbolts in the inactive leaf of paired doors, the MS1880 Two-Point Flushbolts offer greater convenience: one operation instead of two. They also promote security by removing an element of human error. A positive blocking device makes it impossible to turn the key in the active door unless the inactive leaf has first been secured. The MS1880 must be installed in conjunction with a pivoted bolt MS® deadlock. Cannot be unlocked when pivoted bolt is in locked position. **Not to be used as a standalone locking mechanism.**

### Operation

Turn knob or lever 180° clockwise to throw hardened steel bolts into header and threshold and clear strike opening so pivoted MS® bolt can enter from active door. Counterclockwise turn retracts vertical bolts and blocks entry of pivoted bolt. Operates in conjunction with any MS® pivoting deadlock.



### Features

#### Header | Threshold Bolt

Hexagonal 3/8" [9.5 mm] flat to flat. Stainless steel. Guides furnished. Bolt throw is 23/32" [18.3 mm]. Strike required in metal headers and thresholds is 1/2" [12.7 mm] diameter hole. For wood installation, two 4005 Strikes are required, available separately.

#### Interlock

All steel mechanism includes device to prevent entry of pivoted bolt until vertical bolts are locked and conversely, to prevent unlocking of vertical bolts when pivoted bolt is locked.

#### Turn Lever | Indicator

**MS1880** has an hourglass-shaped turn for firmer finger grip. Red background indicator has aluminum letters reading "LOCKED" when secure. No message shown when unlocked.

**MS1881** has a teardrop-shaped turn with red letters on clear decal indicating unlock direction only.

#### Turn Height

Matches cylinder height of MS® lock in active door.

#### Standard Package

Individually boxed with bolt guides and screws.

#### Shipping weight

2 lbs [.91 kg].

### Options

- For wood header or threshold, 4005 Strike available separately.
- For doors over 84" [2,133.6 mm] up to 120" [3,048 mm].
- Tall Door Kit TDK-1880 available separately.
- Available in choice of powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, and US26D (682) Satin chrome.

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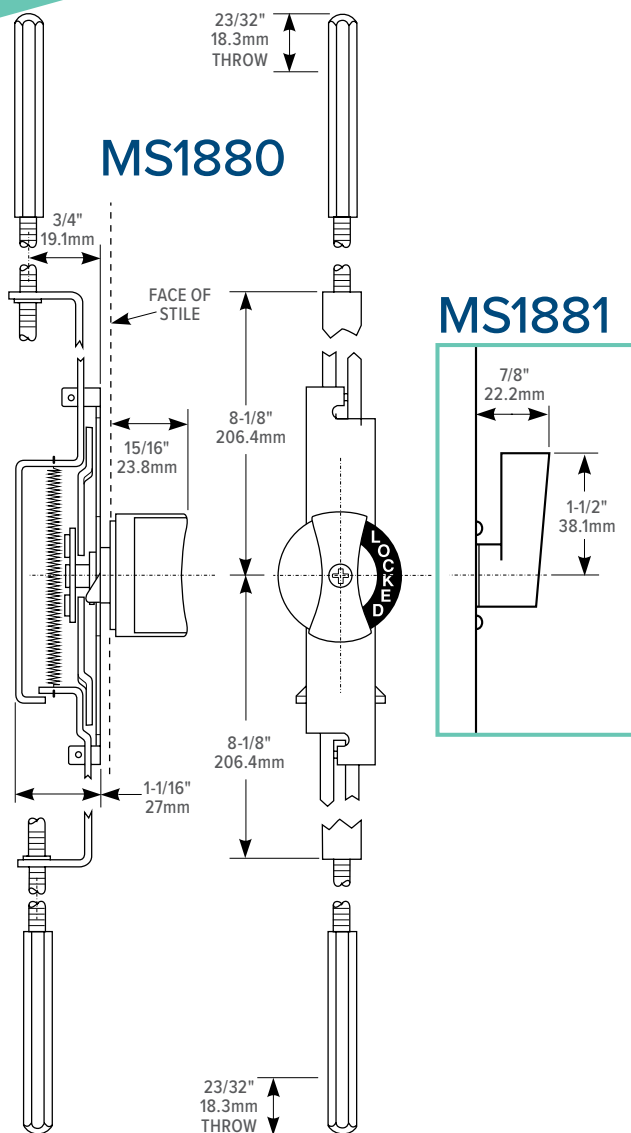
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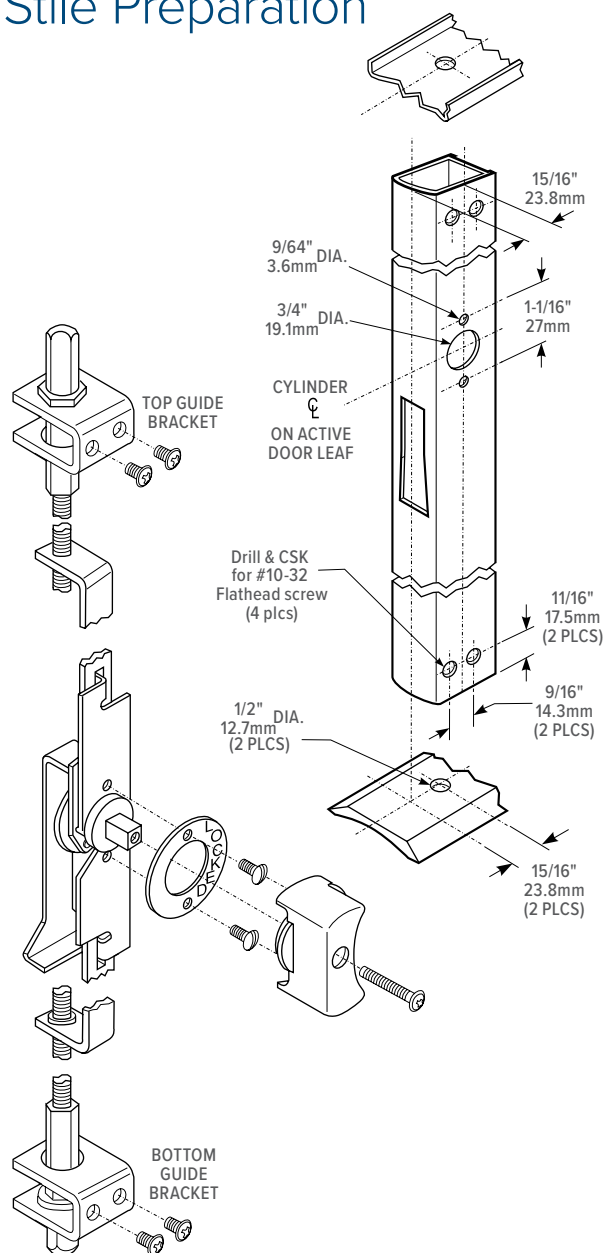
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## Dimensions



## Stile Preparation



## How to Order & Related Products

**MS1880 Two-Point Flushbolts** Specify quantity and the following information. Order related products separately.

MODEL	TURN SHAPE	CYLINDER HEIGHT*	FINISH
MS188	0	- 01	- 628
	0 Hourglass	1 31" to 35"	119 Black
	1 Teardrop	2 35-1/16" to 39"	121 Dark Bronze
		3 39-1/16" to 43"	682 Satin Chrome
		4 43-1/16" to 47"	
		5 47-1/16" to 51"	

\* Distance from floor to cylinder centerline.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	DEADLOCKS
TDK-1880 Tall Door Kit, 4005 Wood Strikes	1850S-020, MS1850S, MS1850S-050, MS1950, MS1950-050 Series Deadlocks

# MS2180

## Auto-Release Two-Point Flushbolt

The MS2180 Auto-Release Two-Point Flushbolts work in conjunction with any MS® pivoting deadlock to provide maximum security for paired narrow stile aluminum doors.

### Function

Used instead of flip-lever flushbolts in the inactive leaf of paired doors. One turn pins the inactive leaf in position. The pivoting MS® deadlock in the active leaf secures the entire opening. The action of securing the MS® deadlock trips an internal mechanism in the MS2180 so that when the MS® deadlock is retracted, the entire opening releases with only one operation. This auto-release two-point flushbolt must be installed with a pivoted bolt MS® deadlock. **Not to be used as a standalone locking mechanism.**

### Operation

Turn knob or lever 120° counterclockwise to throw stainless steel bolts into header and threshold and clear strike opening so pivoted MS® bolt can enter from active door. Clockwise turn retracts vertical bolts and blocks entry of pivoted bolt. Operates in conjunction with any MS® pivoting deadlock.



### Features

#### Header | Threshold Bolt

Hexagonal 3/8" [9.5 mm] flat to flat. Stainless steel. Guides furnished. Bolt throw is 23/32" [18.3 mm]. Strike required in metal headers and thresholds is 1/2" [12.7 mm] diameter hole. For wood installation, two 4005 Strikes are required, available separately.

#### Smart Lock

Mechanism includes device to prevent entry of pivoted bolt until vertical bolts are locked and conversely, to prevent unlocking of vertical bolts when pivoted bolt is locked.

#### Monitoring

Monitoring Kit available as add-on switch kit that signals when the top and bottom bolts are fully projected and the MS® deadlock is in the extended and locked position. More than an easily defeated door position switch, the MK-2180 Monitoring Kit uses a form "C" switch to provide a tamper-proof indication of the door position and locked condition.

#### Turn Lever | Indicator

**MS2180** has an hourglass-shaped turn for a firm finger grip. Red lettered indicator shows "LOCKED" when secure.

**MS2181** has a teardrop-shaped turn with red letters on clear decal indicating unlock direction only.

**MS2182** is a limited-access flush turn to comply with IBC requirements for "no doorknob" actuation. MS2182 is supplied with an activation tool. Red lettered indicator shows "LOCKED" when secure.

#### Turn Height

Matches cylinder height of MS® deadlock in active door, adjustable from 34" [863.6 mm] to 48" [1,219.2 mm].

#### Standard Package

Individually boxed with bolt guides and screws.

#### Shipping weight

2 lbs [.91 kg].

### Options

- For wood header or threshold, 4005 Strike available separately.
- Available in choice of powder coat 119 Black to match 335 Black anodized, 121 Dark bronze to match 313 Dark bronze anodized, and 130 Clear to match 628 Clear anodized.

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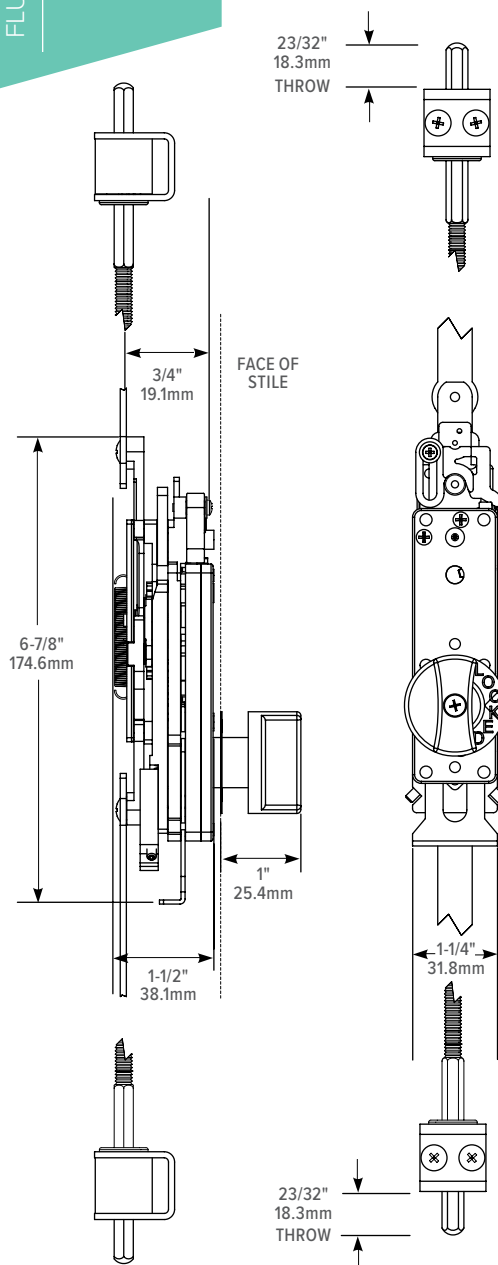
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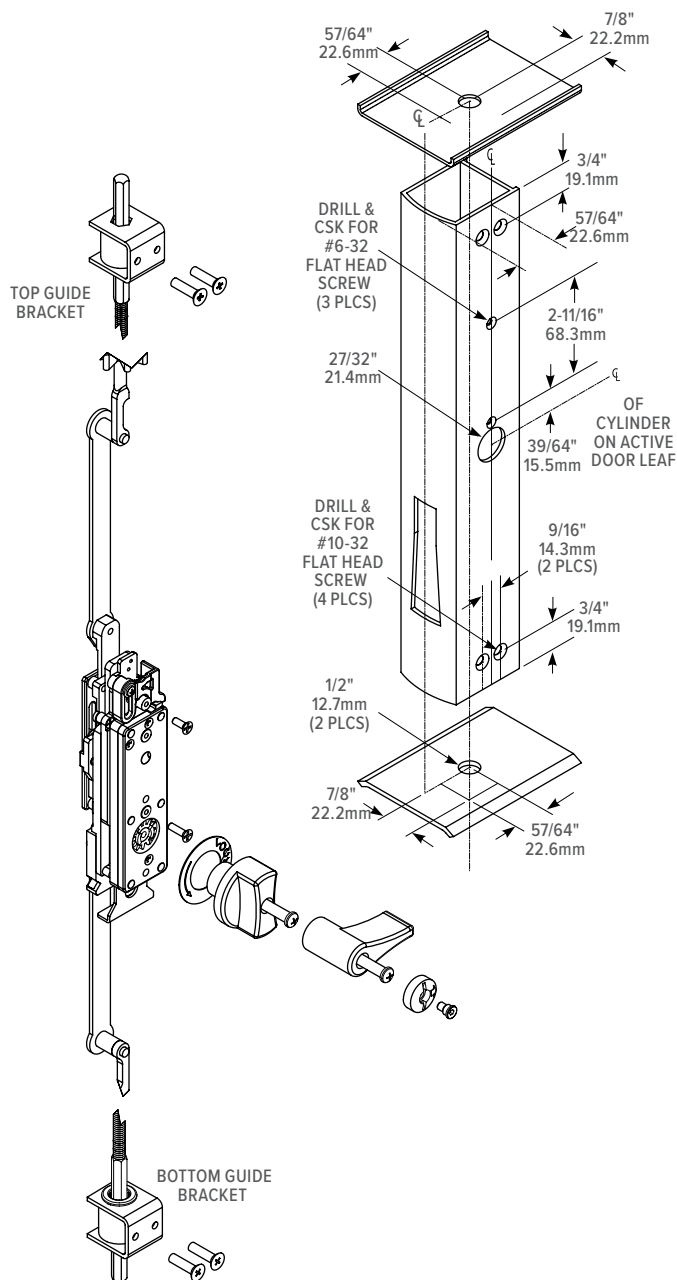
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## Dimensions



## Stile Preparation



## How to Order & Related Products

**MS2180 Auto-Release Two-Point Flushbolt** Specify quantity and the following information. Order related products separately.

MODEL	TURN SHAPE	DOOR HEIGHT (FROM FLOOR TO TOP OF DOOR)	FINISH TO MATCH
MS218	0	- 07	- 130
	0 Hourglass	07 Up to 7' Door	119 Black Anodized
	1 Teardrop	08 Up to 8' Door	121 Dark Bronze Anodized
	2 Flush Operator	09 Up to 9' Door	130 Clear Anodized
		10 Up to 10' Door	

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	DEADLOCKS
MK-2180 Monitoring Kit, 4005 Wood Strikes	MS1850S, MS1950 Series Deadlocks

# 4189, 4190

## Flush Locksets

(Including Deadlock)

The 4189, 4190 Flush Locksets for sliding doors combine the time-tested and field-proven Adams Rite MS1847 Deadlock with a slide button.

## Function

Projecting only 1/10" [2.5 mm] from the door stile on either side, 4189, 4190 Flush Locksets allow doors to slide freely past other sliding units or stationary panels. There are no projecting handles to prevent doors from being stacked in a wall pocket. Not recommended for wood doors.

## Operation

Locksets operated from inside by a simple up or down movement of a slide button, set flush in the deeply recessed finger pull. The lock mechanism (latching action unavailable) is the time-tested and field-proven Adams Rite MS1847 Deadlock and features the adjustable, self-protecting bolt.

- **4189** without cylinder
- **4190** has a flush mounted cylinder outside
- **4195** matching 'dummy set' is also available



## Features

### Backset

Variable, minimum 5/8" [15.9 mm], maximum 1-9/32" [32.5 mm] from face of lock to escutcheon and cylinder centerline.

### Stile Depth

Minimum clear depth:  
Backset plus 9/16" [14.3 mm].

### Escutcheons

Zinc alloy, satin silver epoxy.

### Anti Lift Lock Mechanism

Basic MS1848-09 (radius ends) or MS1848-10 (square ends) is supplied. Stainless steel bolt is self-protecting, adjustable for reach.

### Operation

**Inside:** Vertical slide button projects or retracts deadlock bolt.

**Outside:** 4190 features a key in, five-pin cylinder with Schlage "C" keyway that projects or retracts bolt.

### Standard Package

4190, with cylinder, and 4189, without cylinder, are each complete packages. Shipped individually boxed with mounting screws. 4190 includes two keys. Standard 4190 units are keyed different (KD). Contact factory for special keying.

### Shipping Weight

1-1/4 lbs [0.57 kg].

## Options

- Specify 4190 if outside key-cylinder operation required; 4189 if not. Dummy set 4195 also available.
- Lock face is available as -09 for radius-ended lock face or -10 for square-ended lock face.
- 4413 Interior Pull available separately.

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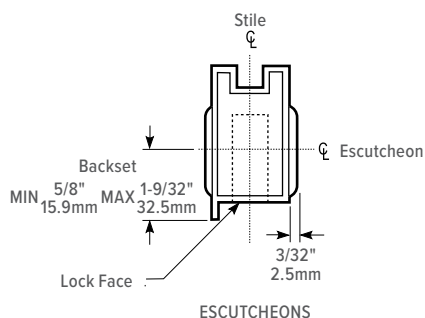
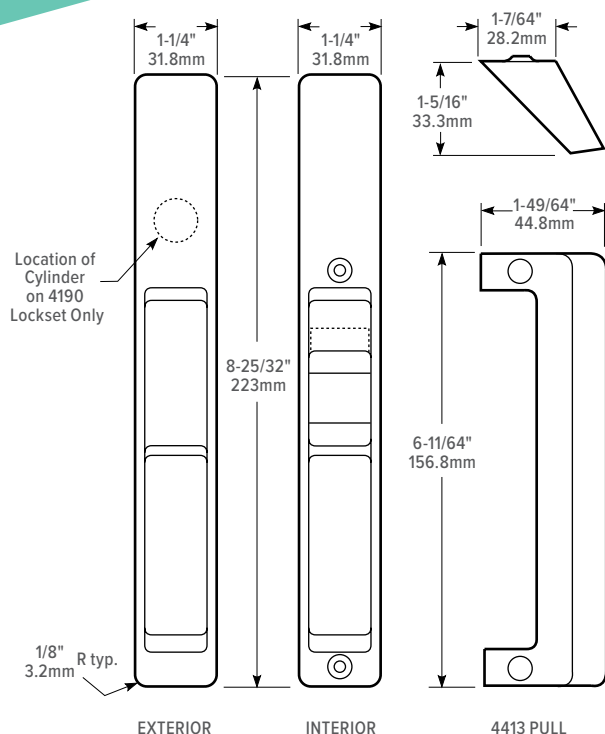
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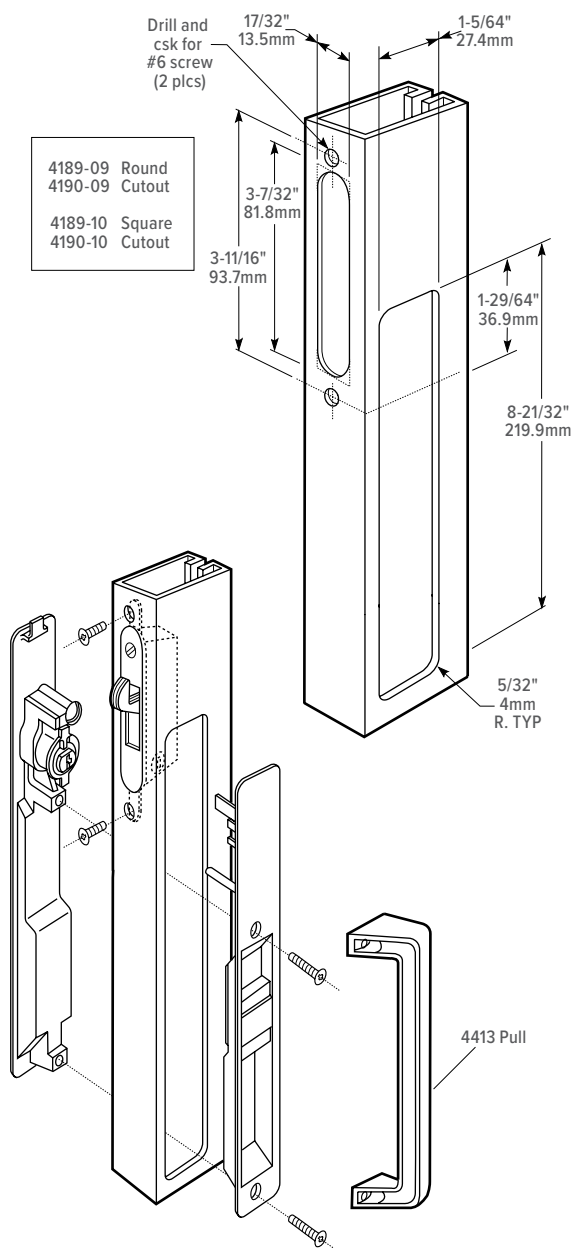
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## Dimensions



## Stile Preparation



## How to Order & Related Products

**4189, 4190, 4195 Flush Locksets:** Specify quantity and the following information. Order related products separately.

MODEL	LOCKSET EXTERIOR	LOCK FACE	STILE THICKNESS	FINISH	KEYING OPTIONS	PACKAGING
41	90	- 09	- 01	- 130	- 01	- IB
	89 Without Cylinder	00 Without Lock	01 1" to 1-3/8"	130 To match Clear Anodized 628	00 Without Cylinder	IB Individually Boxed
	90 With Cylinder	09 Radius	02 1-7/16" to 1-5/8"	121 To match Dark Bronze Anodized 313	01 Keyed Different	
	95 Dummy	09S Radius Stainless Steel	03 1-11/16" to 2"	119 To match Black Anodized 335	02 Keyed Alike in Pairs	
		10 Square				
		10S Square Stainless Steel				

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	SPECIAL ORDER OPTIONS
4413 Interior Pull	Keyed alike 50 are available by special order in quantity of 50 locksets only. Please contact factory for ordering information.

# 4430, 4431

## Flush Locksets

(Including Deadlock)

The 4430, 4431 Flush Locksets for sliding doors combine the time-tested and field-proven Adams Rite MS1847 Deadlock with a slide button.

### Function

Similar in function and nearly identical in size to the all-metal 4189, 4190 Flush Locksets, these economical units feature escutcheons molded of sturdy ABS resin. The black satin finish of the 4430, 4431 Flush Locksets lends elegance to aluminum doors. Not recommended for wood doors.

### Operation

Locksets operated from inside by a simple up or down movement of a slide button, set flush in the deeply recessed finger pull. The lock mechanism (latching action unavailable) is the time-tested and field-proven Adams Rite MS1847 Deadlock and features the adjustable, self-protecting bolt.

- **4430** without cylinder
- **4431** has a flush mounted cylinder outside
- **4432** matching 'dummy set' is also available.



### Features

#### Backset

Variable, minimum 5/8" [15.9 mm], maximum 1-9/32" [32.5 mm] from face of lock to escutcheon and cylinder centerline.

#### Stile Depth

Minimum clear depth:  
Backset plus 9/16" [14.3 mm].

#### Escutcheons

Molded ABS resin plastic. Black Satin finish. Deeply recessed finger pull on both sides. Fits same cutout as metal 4189, 4190 Flush Locksets.

#### Anti Lift Lock Mechanism

Basic MS1848-09 (radius ends) or MS1848-10 (square ends) is supplied. Stainless steel bolt is self-protecting, adjustable for reach.

#### Operation

**Inside:** Vertical slide button projects or retracts deadlock bolt.

**Outside:** 4431 features a key in, five-pin cylinder with Schlage "C" keyway, projects or retracts bolt. Other cylinder makes not available.

#### Standard Package

4431, with cylinder, and 4430, without cylinder, are each complete packages. Shipped individually boxed with mounting screws. 4431 includes two keys. Standard 4431 units are keyed different (KD). Contact factory for special keying.

#### Shipping Weight

1-1/4 lbs [.57 kg].

### Options

- Specify 4431 if outside key-cylinder operation required; 4430 if not. Dummy set 4432 also available.
- Lock face is available as -09 for radius-ended lock face or -10 for square-ended lock face.
- 4413 Interior Pull available separately.

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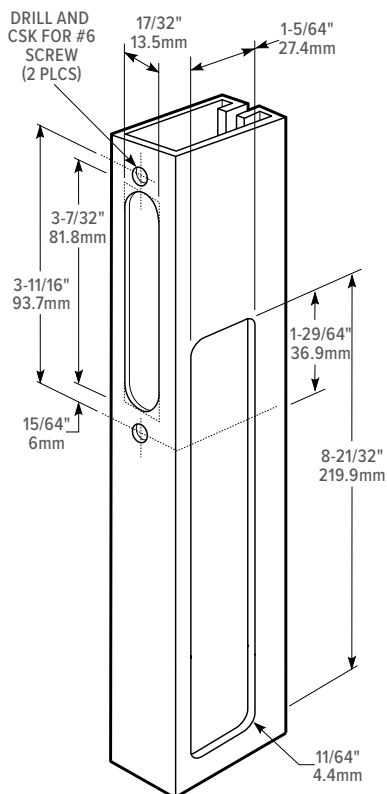
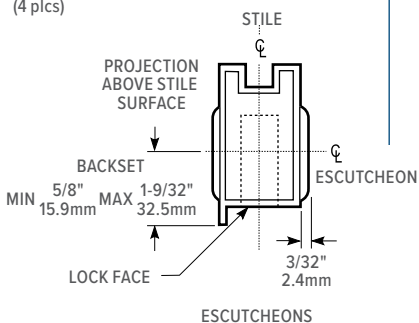
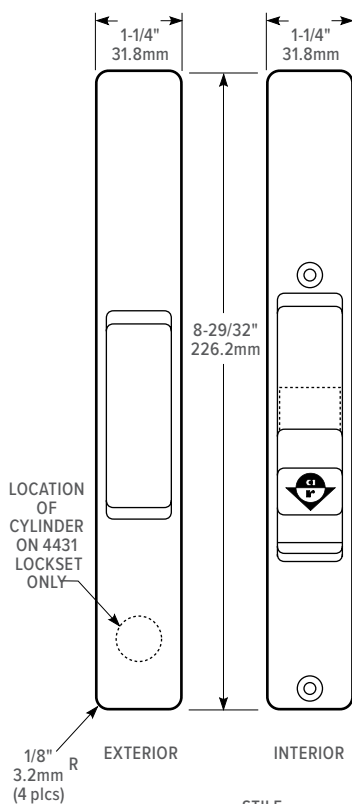
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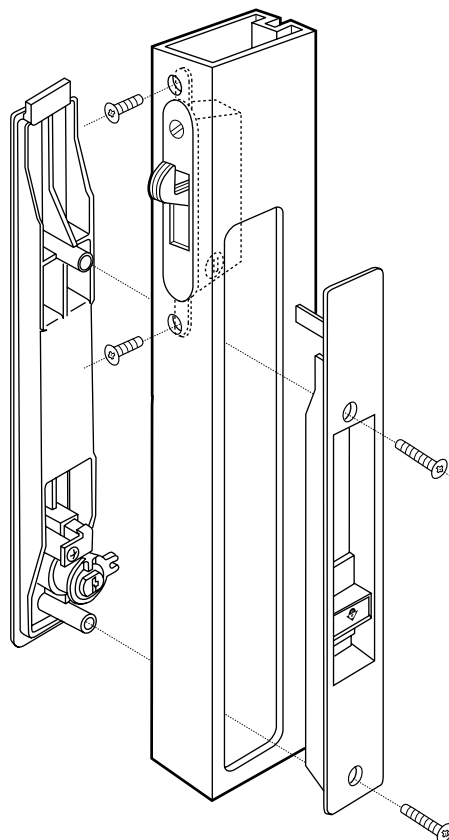
## Dimensions

## Stile Preparation



4430-09 ROUND CUTOUT  
4431-09  
4430-10 SQUARE CUTOUT  
4431-10

## Installation



## How to Order & Related Products

**4430, 4431 Flush Locksets:** Specify quantity and the following information. Order related products separately.

MODEL	LOCKSET EXTERIOR	LOCK FACE	STILE THICKNESS	KEYING OPTIONS	PACKAGING
44	31	- 09	-05	-01	-IB
	30 Without Cylinder	00 Without Lock	00 1" to 1-5/16"	00 Without Cylinder	IB Individually Boxed
	31 With Cylinder	09 Radius 09S Radius Stainless Steel	05 1-3/8" to 1-5/8"	01 Keyed Different	
	32 Dummy	10 Square 10S Square Stainless Steel	08 1-3/4" to 2"	02 Keyed Alike in Pairs	

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	SPECIAL ORDER OPTIONS
4453 Interior Pull	Keyed alike 50 are available by special order in quantity of 50 locksets only. Please contact factory for ordering information.

# Options & Accessories

Adams Rite Flushlocks can be ordered with a variety of related products including strike plates, trim and cylinder accessories and compatible products such as Adams Rite deadlocks. Please see product pages for more information on all available flushlock types, functions, installation requirements and complete How-to-Order guides. For more detailed information on any of the products listed below please refer to the corresponding section of this catalog.

## Accessories

### **4000 Series MS Deadlock Strikes**

4000 surface mounted strike plate, 4001 strike plate with dust box, 4005 threshold strike, 4006 floor strike, or 4505 armored strike add aesthetics and finish to strike cutouts in jambs.

## Deadlocks

MS1880, MS1881 Two-Point Flushbolts and MS2180 Auto-Release Two-Point Flushbolt **MUST** be installed in conjunction with a pivoted bolt MS deadlock. See DEADLOCKS section of this catalog for information on all available types and functions including complete How-to-Order guides for Adams Rite Deadlocks including the MS® Maximum Security Deadlocks.

## Cylinders

### **4036 Mortise Cylinder**

The 4036 Mortise Cylinder is a standard 1" long, 1-5/32" diameter cylinder that provides five-pin security with most Adams Rite locks or latches.

### **4066 Thumbturn**

The 4066 Thumbturn interchanges with standard 1-5/32" diameter mortise cylinder and operates locks or latches without a key.

### **MS 4043 Cylinder Guard**

The MS4043 Cylinder Guard is a hardened-steel, free-swiveling ring to protect cylinder from vandalism such as prying or twisting.



# Upgrade Your Solution Mechanical to Electrical

Upgrading from mechanical to electrified hardware doesn't have to be difficult. Adams Rite makes it easy by offering products for aluminum and glass storefronts that can easily enhance your opening and improve the safety and security of your business.



# 3100 Series Fire-Rated Surface Vertical Rod Exit Device

# 8100 Series Life-Safety Surface Vertical Rod Exit Device

The **3100 Series Fire-Rated Surface Vertical Rod Exit Device** is designed for hollow metal and wood applications that require a fire-rated exit device with surface vertical rods for two-point locking.

The **8100 Series Surface Vertical Rod Exit Device** is designed for hollow metal and wood applications that require a life-safety exit device with surface vertical rods for two-point locking.

Designed for use in applications with single doors or pairs of doors.

MODEL	TYPE	RATING	DOOR CONSTRUCTION	MAX SIZE SINGLE DOORS	MAX SIZE PAIR & DOUBLE EGRESS
3100	SVR	3 hr	Hollow Metal Door	4'-0" x 10'-0"	8'-0" x 10'-0"
3100	SVR	90 min	Wood Door	4'-0" x 10'-0"	8'-0" x 9'-0"
3100T	SVR-TRO	3 hr	Hollow Metal Door	4'-0" x 8'-0"	8'-0" x 10'-0"
3100W	SVR-TRO	1-1/2 hr	Wood Door	4'-0" x 8'-0"	8'-0" x 8'-0"
3100W	SVR-TRO	20 min	Wood Door	4'-0" x 9'-0"	8'-0" x 9'-0" (std. pairs)

## Certifications

UL 305 Panic Hardware

**3100 Only** UL 10(c) fire-rated, up to 3 hours for non "T" product

CAN/ULC S104 fire door conformant

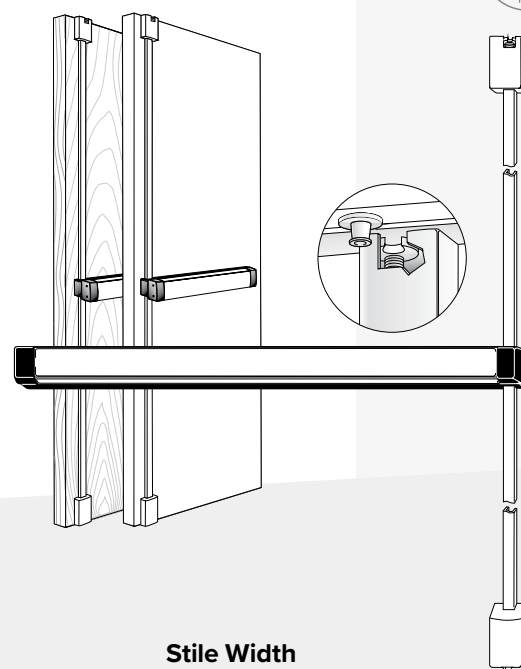
NFPA 252 fire door conformant



LISTED



3100 Only



## Features

### Materials

Push bar made of extruded aluminum, available in a variety of finishes.

### Handing

Device is non-handed.

### Push bar Length

Standard sizes: dimensioned for 30" [762 mm], 36" [914.4 mm], 42" [1066.8 mm], and 48" [1219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

### Bar Height

Standard model adjusts from 30" [762 mm] to 44" [1117.6 mm].

### Door Height

Standard configuration suitable for doors up to 8' [2.44 m] door, with bar height at 40" [1016 mm] – 44" [1117.6 mm]. For doors up to 10' [3.05 m] use 3055 Tall Door Kit available separately.

### Door Thickness

Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm].

### Stile Width

Minimum 3-3/4". Door construction may require additional stile width to meet fire ratings and provide adequate strength.

### Projection

2-15/16" [74.6 mm] when fully projected, 1-15/16" [49.2 mm] when dogged.

### Dogging

Standard dogging with hex key or with cylinder not available on fire-rated exit devices. Electric dogging option available only.

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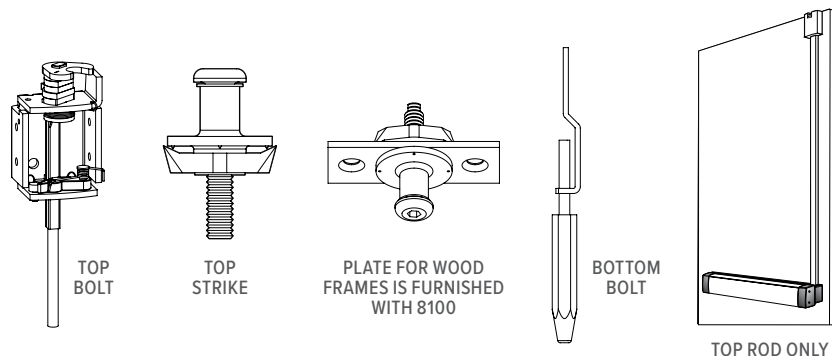
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### Fasteners

Standard self-tapping screws and machine screws. Optional Sex Bolt Kits 26-0584 (two required per device). Specify finish.

### Cylinders

Select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

### Cylinder x Fixed Pull Functions

For entry trim function 03 (Night latch - key releases latch) select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

### Entry Trim Functions

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

### Bolts and Strikes

The patented top latching mechanism utilizes a rotating top bolt which latches around the header strike, interlocking the door to the frame. Adjustable steel rods protected in contoured covers. The hexagonal, hardened steel bottom bolt is shielded in a cast housing for strength and stability. For wood frames, an additional plate is supplied for securing the header strike.

### Standard Package

Individually boxed.

### Shipping Weight

12 lbs [5.44 kg]

## Options

- Available in top rod only version, less bottom rod. Specify by adding "T" after exit device model number.
- Electrification Options**  
Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm
- Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

## How to Order & Related Products

**3100, 8100 Surface Vertical Rod Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	ROD TYPE	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH
81	00	-	SE	M2	-30		-US32D	MEC
31 Fire Rated	00 US Finish	T Top Rod only	LR Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps
81 Life-Safety	11 Clear Anodized 628	W Top Rod only - Wood doors	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass	
	22 Dark Bronze Anodized 313	- Standard rods	C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless	
	33 Black Anodized 335		ED Electric Dogging				US32D Satin Stainless	
			(Blank) No Option					

\* Please note that 30" exit devices cannot accommodate monitoring options, except when ordered in conjunction with the SE option.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
26-0584 Sex Bolt Kit (two required per device) Tall Door Kit available separately: 8055 for 8100 or 3055 for 3100 REX-Monitor/Signal Kits	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 3001 Fixed Pull (for hollow metal or wood)	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier



# 8200 Series

## Narrow Stile Surface Vertical Rod Exit Device

The 8200 Series Narrow Stile Surface Vertical Rod Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device with surface vertical rods for two-point locking. Designed for use in applications with single doors or pairs of doors

### Certifications

UL 305 Panic hardware



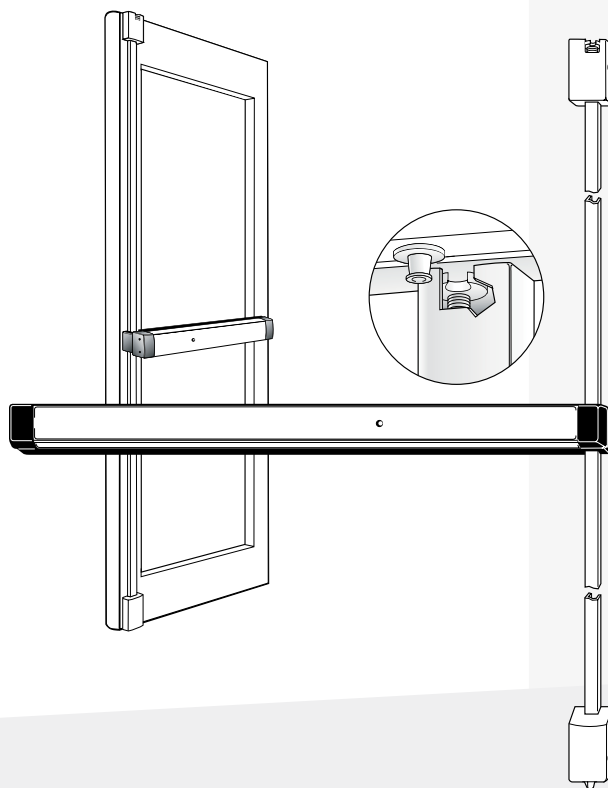
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Aluminum



Electrified  
Option



### Features

#### Materials

Push bar made of extruded aluminum, available in a variety of finishes.

#### Handing

Device is non-handed.

#### Push bar Length

Standard sizes: dimensioned for 30" [762 mm], 36" [914.4 mm], 42" [1066.8 mm], and 48" [1219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

#### Bar Height

Standard model adjusts from 30" [762 mm] to 44" [1117.6 mm].

#### Fasteners

Standard machine screws.

#### Projection

2-15/16" [74.6 mm] when fully projected, 1-15/16" [49.2 mm] when dogged.

#### Door Height

Standard configuration suitable for doors up to 8' [2.44 m] door, with bar height at 40" [1016 mm] – 44" [1117.6 mm]. For doors up to 10' [3.05 m] use 8055 Tall Door Kit available separately.

#### Door Thickness

Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm].

#### Stile Width

Minimum 2" stile. Fits narrow, medium, and wide stile aluminum doors.

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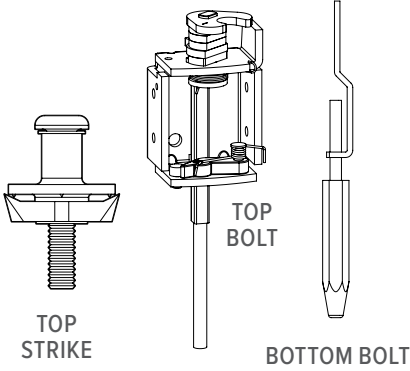
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Dogging

Standard dogging with hex key or optional cylinder dogging. Electric dogging option also available.

Cylinders

Select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

Cylinder x Fixed Pull Functions

For entry trim function 03 (Night latch - key releases latch) select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

Entry Trim Functions

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

Bolts and Strikes

The patented top latching mechanism utilizes a rotating top bolt which latches around the header strike, interlocking the door to the frame. Adjustable steel rods protected in contoured covers. The hexagonal, hardened steel bottom bolt is shielded in a cast housing for strength and stability. Supplied with standard header strike.

Standard Package

Individually boxed.

Shipping Weight

12 lbs [5.44 kg]

Options

- Available in top rod only version, less bottom rod. Specify by adding "T" after exit device model number.
- **Electrification Options**  
Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm
- Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

How to Order & Related Products

**8200 Narrow Stile Surface Vertical Rod Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	ROD TYPE	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH
82	00	-	ED	M2	36		-US3	
82 Life-Safety	00 US Finish	T I Top Rod only	LR Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps
	11 Clear Anodized 628	- Standard rod	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass	
	22 Dark Bronze Anodized 313		C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless	
	33 Black Anodized 335		ED Electric Dogging				US32D Satin Stainless	
			(Blank) No Option					

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
8055 Tall Door Kit REX-Monitor/Signal Kits	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 3300 Series Fire-Rated Mortise Exit Device

# 8300 Series Life-Safety Mortise Exit Device

The **3300 Series Fire-Rated Mortise Exit Device** is designed for hollow metal and wood applications that require a fire-rated exit device with mortise locking solution. The **8300 Series Mortise Exit Device** is designed for hollow metal and wood applications that require a life-safety exit device with mortise locking solution.

Designed for use in applications with single doors or pairs of doors.

MODEL	TYPE	RATING	DOOR CONSTRUCTION	MAX SIZE SINGLE DOORS	MAX SIZE PAIR & DOUBLE EGRESS
3300	(SPM) Single Point Mortise	3 hr	Hollow Metal Door	4'-0" x 10'-0"	8'-0" x 10'-0" *(active leaf)

\*May be used with 3100 or 3600 Series with an open back strike.

## Certifications

UL 305 Panic Hardware

**3300 Only:** UL 10(b), UL 10(c) fire-rated, up to 3 hours

CAN/ULC S104 fire door conformant

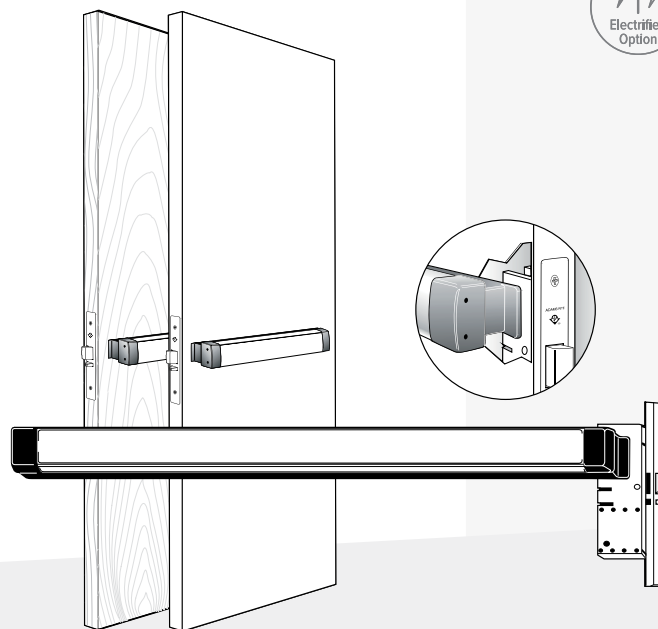
NFPA 252 fire door conformant



LISTED



3300 Only



## Features

### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

### Handing

Specify handing and bevel if applicable.

### Push bar Length

Standard sizes: dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

### Backset

2-3/4" [69.9 mm] only

### Door Thickness

Suits 1-3/4" [44.5 mm] standard. Can be modified for thicker doors.

### Stile Width

Minimum 5" [127.0 mm]. Door construction may require additional stile width to meet fire ratings and provide adequate strength.

### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

### Dogging

Standard dogging with hex key or with cylinder not available on fire-rated exit devices. Electric dogging option available only.

### Fasteners

Standard self-tapping screws and machine screws. Optional Sex Bolt Kits 26-0584 (two required per device) available separately.

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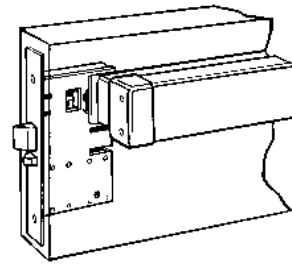
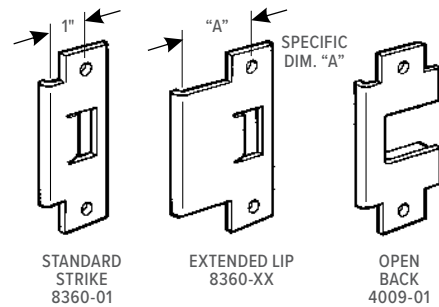
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800.232.7329

adamsrite.com

10027 S. 51st Street, Ste 102, Phoenix, Arizona 85044

All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.



## Cylinders

Accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

## Cylinder x Fixed Pull Functions

For function 03 (Night latch – key releases latch) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder.

## Entry Trim Functions

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

## Bolts and Strikes

Mortise deadlatch with bolt measuring 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw. Solid brass bolt.

A variety of strikes are available for different applications:

- Standard strike of stainless steel included, Open Back Strike 4009-01 available separately.

## Standard Package

Individually boxed.

## Shipping Weight

11 lbs [4.99 kg]

## Options

### • Electrification Options

Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm

- Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

# How to Order & Related Products

**3300, 8300 Surface Vertical Rod Exit Device** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	FACE SHAPE	DEVICE OPTIONS	MONITORING OPTION	DOOR HANDING	PUSH BAR FINISH	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH
<b>83</b>	<b>3</b>	<b>0</b>	<b>ED</b>	<b>M</b>	<b>-7</b>	<b>3</b>	<b>30</b>		<b>US32D</b>	<b>MEC</b>
<b>33</b> Fire Rated	<b>0</b> US Finish	<b>0</b> Flat (3300 Only)	<b>LR</b> Electric Latch Retraction	<b>M</b> Single Switch	<b>7</b> RHR	<b>0</b> US Finish	<b>30</b> 30 inches*	<b>42</b> 42 inches	<b>US3</b> Bright Brass	<b>MEC</b> Matching End Caps
<b>83</b> Life-Safety	<b>1</b> Clear Anodized 628	<b>2</b> Bevel (8300 Only)	<b>SE</b> Silent Electrification Latch Retraction	<b>M2</b> Dual Switch	<b>8</b> LHR	<b>1</b> Clear Anodized 628	<b>36</b> 36 inches	<b>48</b> 48 inches	<b>US4</b> Satin Brass	
	<b>2</b> Dark Bronze Anodized 313		<b>C</b> Cylinder Dogging (non-fire rated devices ONLY)	<b>(Blank)</b> No Monitor		<b>2</b> Dark Bronze Anodized 313	<b>AXXB</b> Alarmed Exit Device where XX is door opening width		<b>US32</b> Bright Stainless	
	<b>3</b> Black Anodized 335		<b>ED</b> Electric Dogging			<b>3</b> Black Anodized 335			<b>US32D</b> Satin Stainless	
			- No Option							

\* Please note that 30" exit devices cannot accommodate monitoring options, except when ordered in conjunction with the SE option.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	ELECTRIC STRIKE	POWER
26-0584 Sex Bolt Kit (two required per device) Thick Door Kits, 8360-XX Extended Lip Strike, 4009-01 Open Back Strike, 4506-02 Deadlatch Strike REX-Monitor/Signal Kits	Operable by 4036 Mortise Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 3001 Fixed Pull (for hollow metal or wood)	7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 8400 Series

## Life-Safety Narrow Stile Mortise Exit Device

The 8400 Series Narrow Stile Mortise Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device with mortise locking solution.

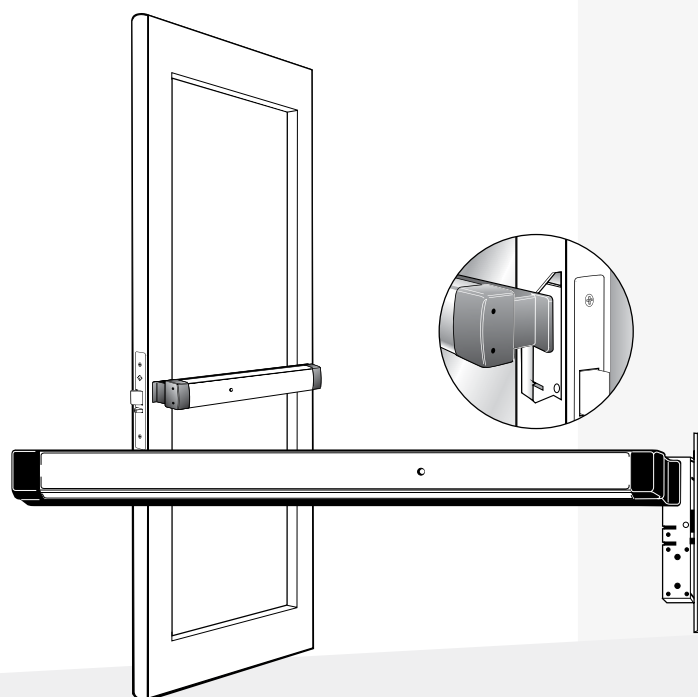
Designed for use in single door applications.

### Certifications

UL 305 Panic Hardware



LISTED



### Features

#### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

#### Handing

Specify handing and bevel if applicable.

#### Push bar Length

Standard sizes dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

#### Backset

31/32" [24.6 mm], 1-1/8" [28.6 mm], or 1-1/2" [38.1 mm]. Fits standard cutout used for the Adams Rite 4900 Heavy Duty Deadlatch on narrow stile aluminum doors.

#### Door Thickness

Suits 1-3/4" [44.5 mm] standard. Device can be modified for thicker doors using Thick Door Kit available separately, or for thermal doors using Thermal Door Kit available separately.

#### Stile Width

Minimum 2" [50.8 mm] stile. Fits narrow, medium, and wide stile aluminum doors.

#### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

#### Dogging

Standard dogging with hex key or optional cylinder dogging. Electric dogging option also available.

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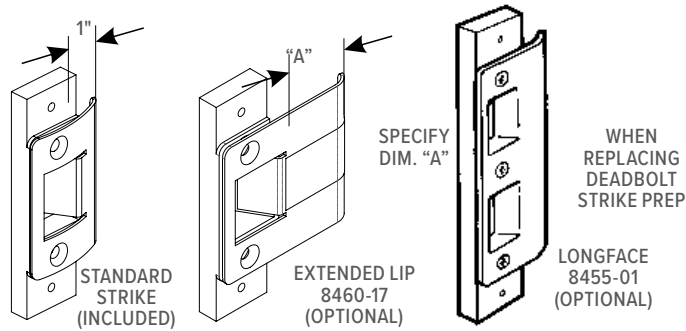
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**Adams  
Rite**  
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All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.



**Fasteners**  
Standard machine screws.

**Cylinders**  
Accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

**Cylinder x Fixed Pull Functions**  
For function 03 (Night latch - key releases latch) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Function 03 is not applicable to 8475 Mortise Mid-Panel Exit Device.

**Entry Trim Functions**  
For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

**Bolts and Strikes**  
Mortise deadlatch with bolt measuring 5/8" x 1" x 5/8" [15.9 mm x 25.4 mm x 15.9 mm] throw. Solid brass bolt.  
A variety of strikes are available for different applications:

- Standard strike of stainless steel included, Extended Lip Strike 8460 available separately, Long Face Strike 8455-01 available separately.

**Standard Package**  
Individually boxed.

**Shipping Weight**  
11 lbs [4.99 kg]

- ### Options
- **Electrification Options**  
Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm
  - Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

## How to Order & Related Products

**8400 Narrow Stile Mortise Exit Device** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE FINISH	FACE SHAPE	DEVICE OPTIONS	MONITORING OPTION	BACKSET	DOOR HANDING	PUSH BAR FINISH	DOOR OPENING WIDTH <small>On pair of doors, specify HALF of the total exit opening</small>		US FINISH	END CAPS OPTION FOR US FINISH
84	1	4	SE	M2	-4	7	1	42		US3	MEC
84 Life-Safety	0 US Finish	0 Flat, bevel, radius	LR Electric Latch Retraction	M Single Switch	2 31/32"	7 RHR	0 US Finish	30 30 inches	42 42 inches	US3 Bright Brass	MEC Matching End Caps
	1 Clear Anodized 628	2 Radius w/ Weatherstrip*	SE Silent Electrification Latch Retraction	M2 Dual Switch	3 1-1/8"	8 LHR	1 Clear Anodized 628	36 36 inches	48 48 inches	US4 Satin Brass	
	2 Dark Bronze Anodized 313		C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	4 1-1/2"		2 Dark Bronze Anodized 313	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless	
	3 Black Anodized 335		ED Electric Dogging				3 Black Anodized 335			US32D Satin Stainless	
			- Without Options								

\* Radius with weatherstrip faceplate is not available in US finishes.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	ELECTRIC STRIKE	POWER
Thick or Cladded Door Kits, 8360-17 Extended Lip Strike, 8455-01 Longface, 8460-XX Long Lip Strike, 4901, 4902 Deadlatch Strike REX-Monitor/Signal Kits	Operable by either 4036 Mortise Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry	7100/7101, 7110/7111, 7130/7131, 7140 Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440 Electric Strikes	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 3600 Series Fire-Rated Concealed Vertical Rod Exit Device

# 8500 Series Life-Safety Concealed Vertical Rod Exit Device

The **3600 Series Fire-Rated Concealed Vertical Rod Exit Device** is designed for hollow metal applications that require a fire-rated exit device with concealed vertical rods for two-point locking.

The **8500 Series Concealed Vertical Rod Exit Device** is designed for hollow metal applications that require a life-safety exit device with concealed vertical rods for two-point locking.

Designed for use in applications with single doors or pairs of doors.

MODEL	TYPE	RATING	DOOR CONSTRUCTION	MAX SIZE SINGLE DOORS	MAX SIZE PAIR & DOUBLE EGRESS
3600	CVR	3 hr	Hollow Metal Door	N/A	8'-0" x 10'-0"
3600T	CVR-TRO	3 hr	Hollow Metal Door	N/A	8'-0" x 10'-0" (std. pairs)
3600T	CVR-TRO	3 hr	Hollow Metal Door	N/A	8'-0" x 8'-0" (double egress)
3600T	CVR-TRO	1-1/2 hr	Hollow Metal Door	N/A	8'-0" x 10'-0" (double egress)

## Certifications

UL 305 Panic Hardware

**3600 only:** UL 10(c) fire-rated, up to 3 hours

CAN/ULC S104 fire door conformant

NFPA 252 fire door conformant



LISTED



Hollow Metal

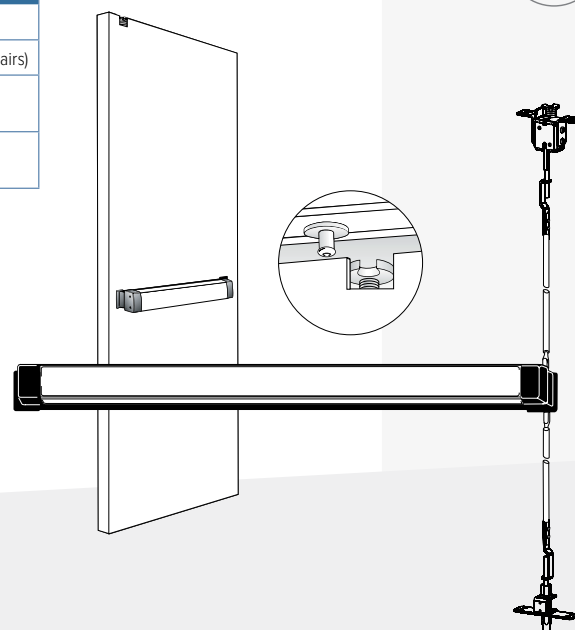


Fire Rated



Electrified Option

3600 Only



## Features

### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

### Push bar Length

Standard sizes: dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

### Bar Height

Standard model adjusts from 30" [762 mm] to 44" [1117.6 mm].

### Handing

Device is non-handed.

### Door Thickness

Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm].

### Door Height

Standard configuration suitable for doors up to 66" [1,676.4 mm] above the selected bar height. For doors over 66" [1,676.4 mm] above bar height, up to 10' [3.05 m] use 3655 Tall Door Kit available separately.

### Stile Width

Minimum 3-1/2" [88.9 mm]. Door construction may require additional stile width to meet fire ratings and provide adequate strength.

### Stile Wall

Doors with stile walls other than 1/8" [3.2 mm] require modification.

### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

### Dogging

Standard dogging with hex key or with cylinder not available on fire-rated exit devices. Electric dogging option available only.

### Fasteners

Standard self-tapping screws and machine screws. Optional Sex Bolt Kits 26-0584 (two required per device) available separately.

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## Cylinders

Accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

## Cylinder x Fixed Pull Functions

For entry trim function 03 (Night latch - key releases latch) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder.

If key entry operation is required, any standard mortise cylinder with MS® cam can be installed through an 8650 Cylinder Escutcheon. 8650 Cylinder Escutcheon Kit available separately.

## Entry Trim Functions

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

## Bolts and Strikes

The patented top latching mechanism utilizes a rotating top bolt which deadlatches around the header strike, interlocking the door to the frame. Supplied with standard header strike. Adjustable protected steel rods. The hexagonal, hardened steel bottom bolt is shielded in a cast housing for strength and stability.

## Standard Package

Individually boxed.

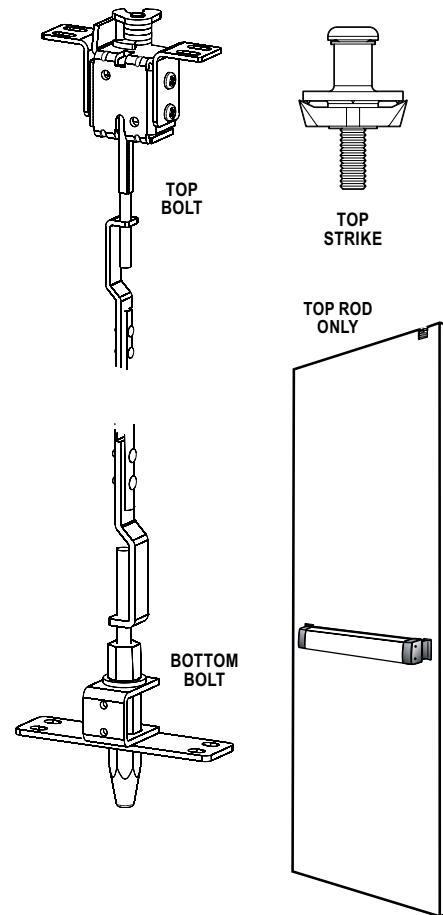
## Shipping Weight

12 lbs [5.44 kg]

## Options

- Available in top rod only version, less bottom rod. Specify by adding "T" after exit device model number.
- Electrification Options**  
Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm
- Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.



# How to Order & Related Products

**3600, 8500 Metal Door Concealed Vertical Rod Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	ROD TYPE	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH
85	00	T	ED	M	-36		US32D	MEC
36 Fire Rated	00 US Finish	T I Top Rod only	LR Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps
85 Life-Safety	11 Clear Anodized 628	- Standard rod	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass	
	22 Dark Bronze Anodized 313		C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless	
	33 Black Anodized 335		ED Electric Dogging				US32D Satin Stainless	
			- No Option					

\* Please note that 30" exit devices cannot accommodate monitoring options, except when ordered in conjunction with the SE option.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
26-0584 Sex Bolt Kit (two required per device) 3655 Tall Door Kit REX-Monitor/Signal Kits 8650 Cylinder Escutcheon Kit	Operable by 4036 Mortise Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 3001 Fixed Pull (for hollow metal or wood)	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 8600 Series

## Narrow Stile Concealed Vertical Rod Exit Device

The 8600 Series Narrow Stile Concealed Vertical Rod Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device with concealed vertical rods for two-point locking. Designed for use in applications with single doors or pairs of doors.

### Certifications

UL 305 Panic hardware



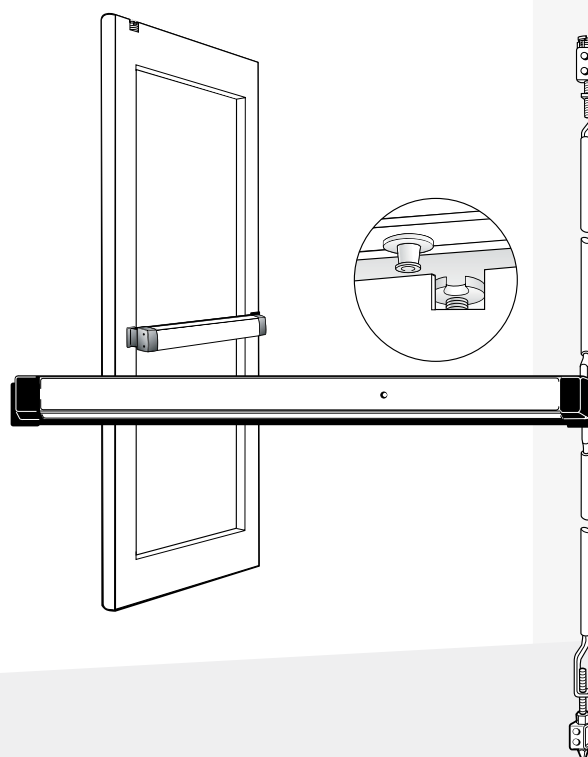
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Aluminium



Electrified  
Option



### Features

#### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

#### Handing

Device is non-handed.

#### Push bar Length

Standard sizes: dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

#### Bar Height

Standard model adjusts from 30" [762 mm] to 44" [1117.6 mm].

#### Door Thickness

Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm]. Device requires modification when used with cylinder in doors over 1-3/4" [44.5 mm]. Please contact factory for more details.

#### Door Height

Standard configuration suitable for doors up to 66" [1,676.4 mm] above the selected bar height. For doors over 66" [1,676.4 mm] above bar height, up to 10' [3.05 m] use 8655 Tall Door Kit available separately.

#### Stile Width

Minimum 2" [50.8 mm] stile. Fits narrow, medium, and wide stile aluminum doors.

#### Stile Wall

Doors with stile walls other than 1/8" [3.2 mm] require modification.

#### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

#### Dogging

Standard dogging with hex key or optional cylinder dogging. Electric dogging option also available.

#### Fasteners

Standard machine screws.

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**Cylinders**  
Accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

**Cylinder x Fixed Pull Functions**  
For entry trim function 03 (Night latch - key releases latch) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accepts any standard mortise cylinder with MS® cam.

If key entry operation is required, any standard mortise cylinder with MS® cam can be installed through an 8650 Cylinder Escutcheon. 8650 Cylinder Escutcheon Kit available separately.

**Entry Trim Functions**  
For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

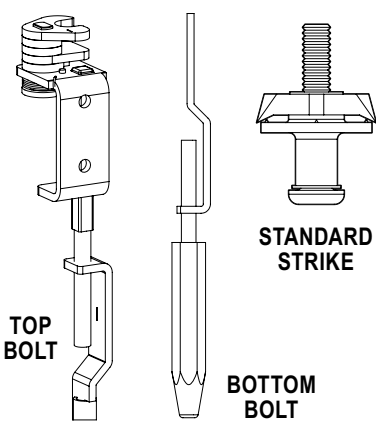
**Bolts and Strikes**  
The patented top latching mechanism utilizes a rotating top bolt which deadlatches around the header strike, interlocking the door to the frame. Supplied with standard header strike. Adjustable protected steel rods. The hexagonal, hardened steel bottom bolt is shielded in a cast housing for strength and stability.

**Standard Package**  
Individually boxed.

**Shipping Weight**  
12 lbs [5.44 kg]

- Options
- Available in top rod only version, less bottom rod. Specify by adding "T" after exit device model number.
  - Electrification Options**  
Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm
  - Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.



# How to Order & Related Products

**8200 Narrow Stile Surface Vertical Rod Exit Device** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	ROD TYPE	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH
86	22	T	SE	M2	-36			
86 Life-Safety	00 US Finish	T ITop Rod only	LR Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps
	01 Clear Anodized 628	- Standard rod	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass	
	02 Dark Bronze Anodized 313		C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless	
	03 Black Anodized 335		ED Electric Dogging				US32D Satin Stainless	
			(Blank) No Option					

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
8655 Tall Door Kit 8650 Cylinder Escutcheon kit REX-Monitor/Signal Kits	Operable by 4036 Mortise Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 3700 Series Fire-Rated Rim Exit Device

# 8700 Series Life-Safety Rim Exit Device

The **3700 Series Fire-Rated Rim Exit Device** is designed for hollow metal and wood applications that require a fire-rated exit device with Starwheel interlocking solution.

The **8700 Series Rim Exit Device** is designed for hollow metal and wood applications that require a life-safety exit device with Starwheel interlocking solution.

Designed for use in applications with single doors or pairs of doors with a mullion.

MODEL	TYPE	RATING	DOOR CONSTRUCTION	MAX SIZE SINGLE DOORS	MAX SIZE PAIR & DOUBLE EGRESS
3700	(RE) Rim Exit	3 hr	Hollow Metal DoorWood Door	4'-0" x 10'-0"	8'-0" x 10'-0"

## Certifications

UL 305 Panic Hardware

**3700 Only:** UL 10(c) fire-rated, up to 3 hours

CAN/ULC S104 fire door conformant

NFPA 252 fire door conformant



LISTED



3700 Only



## Features

### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

### Handing

Device is non-handed.

### Push bar Length

Standard sizes: dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings.

Standard width bars can be field cut to the next smallest opening width.

### Door Thickness

Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm].

### Stile Width

Minimum 3-3/4" [95.3 mm]. Door construction may require additional stile width to meet fire ratings and provide adequate strength.

### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

### Dogging

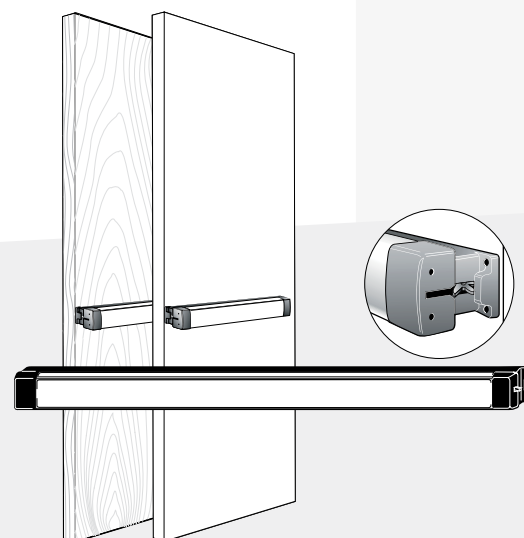
Standard dogging with hex key or cylinder dogging for 8700 Series only. Electric dogging also available for 3700 and 8700 Series.

### Fasteners

Standard self-tapping screws and machine screws. Optional Sex Bolt Kits 26-0584 (two required per device) available separately.

### Cylinders

Select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.



### Cylinder x Fixed Pull Functions

For function 03 (Night latch - key releases latch) select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder.

### Entry Trim Functions

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

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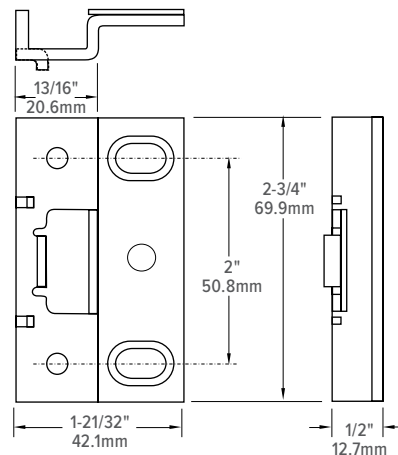
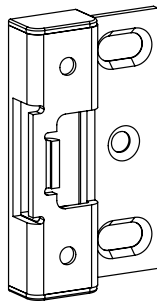
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All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.



## Strike

Standard hardened steel strike (included).

## Standard Package

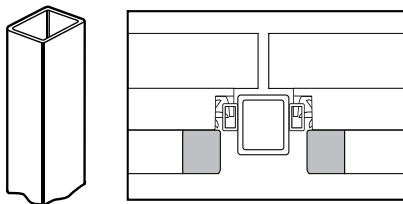
Individually boxed.

## Shipping Weight

10 lbs [4.54 kg]

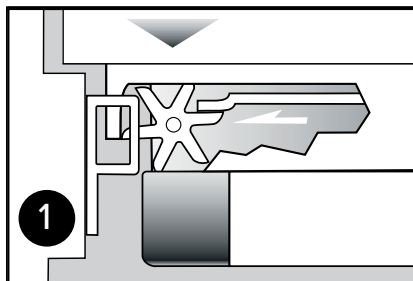
## Removable Mullion

Allows the use of rim exit devices on paired doors without narrowing the doors. Provides higher security and better traffic flow than paired doors with vertical rod exit devices. 3889 Steel Mullion available separately. Select for use with doors up to 8' [2.44 m].

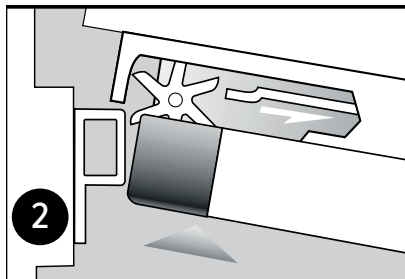


## Starwheel Bolt

**1.** When door closes, the interlocking noseguard and Starwheel bolt close around the strike. The deadlocking slide spring over, locking the Starwheel bolt to the strike.



**2.** When push bar is depressed, the deadlocking slide moves back, allowing the door to unlock from the strike. This unique interlock provides solid security and prevents jamb spreading.



## Options

### • Electrification Options

Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (EL), Electric Dogging, Alarm

• Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

## How to Order & Related Products

**3700, 8700 Rim Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH	VOLTAGE
37	00	EL	M1	-36		-US3	MEC	-12
36 Fire Rated	00 US Finish	EL Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps	12 Volts
85 Life-Safety	11 Clear Anodized 628	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass		24 Volts (For EL Option Only)
	22 Dark Bronze Anodized 313	C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless		
	33 Black Anodized 335	ED Electric Dogging				US32D Satin Stainless		
		- No Option						

\* Please note that 30" exit devices cannot accommodate monitoring options, except when ordered in conjunction with the SE option.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
26-0584 Sex Bolt Kit (two required per device) REX-Monitor/Signal Kits	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 3001 Fixed Pull (for hollow metal or wood)	PS-1, PS-SE, Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 8800 Series

## Narrow Stile Rim Exit Device

The 8800 Series Narrow Stile Rim Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device with Starwheel interlocking solution. Designed for use in applications with single doors or pairs of doors with a mullion.

### Certifications

UL 305 Panic Hardware



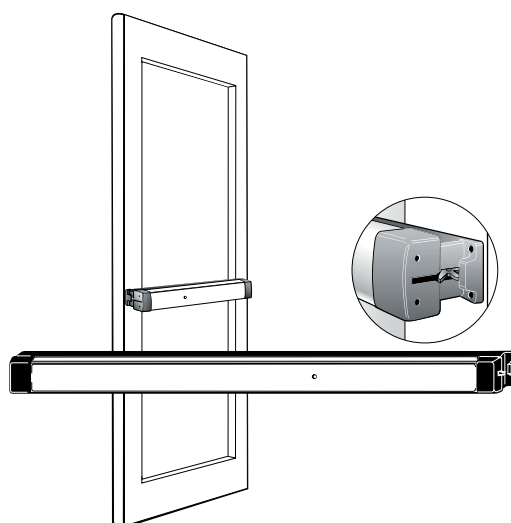
LISTED



Aluminium



Electrified  
Option



### Features

#### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

#### Handing

Device is non-handed.

#### Push bar Length

Standard sizes: dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

#### Door Thickness

Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm].

#### Stile Width

Minimum 2" [50.8 mm] stile. Fits narrow, medium, and wide stile aluminum doors.

#### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

#### Dogging

Standard dogging with hex key or optional cylinder dogging. Electric dogging option also available.

#### Fasteners

Standard machine screws.

#### Cylinders

Select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

#### Cylinder x Fixed Pull Functions

For function 03 (Night latch - key releases latch) select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder.

#### Entry Trim Functions

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

#### Strike

Standard strike and narrow versions for centering doors in 4" jamb (both strikes included).

#### Standard Package

Individually boxed.

#### Shipping Weight

10 lbs [4.54 kg]

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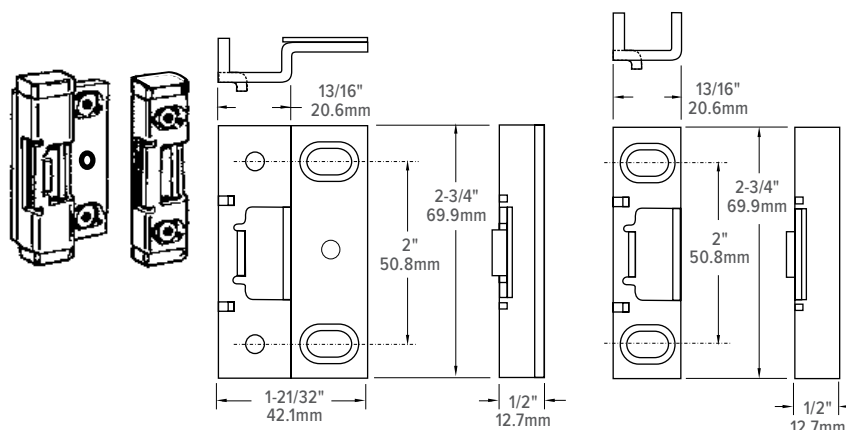
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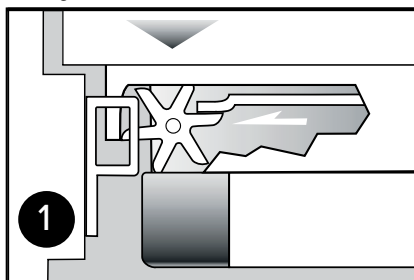
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## Strike Dimensions

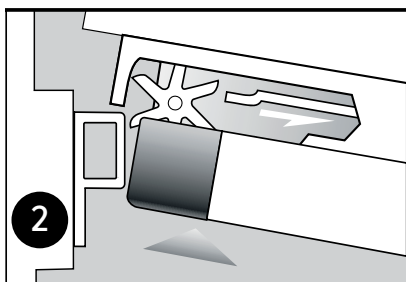


## Starwheel Bolt

1. When door closes, the interlocking noseguard and Starwheel bolt close around the strike. The deadlocking slide spring over, locking the Starwheel bolt to the strike.



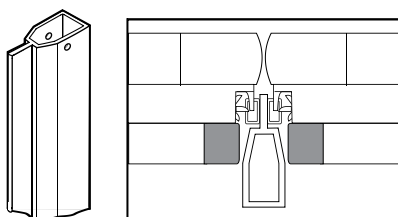
2. When push bar is depressed, the deadlocking slide moves back, allowing the door to unlock from the strike. This unique interlock provides solid security and prevents jamb spreading.



### Removable Mullion

Allows the use of rim exit devices on paired doors without narrowing the doors. Provides higher security and better traffic flow than paired doors with vertical rod exit devices.

3890 Aluminum Mullion available separately. Select for use with doors up to 8' [2.44 m] or 10' [3.05 m]. Available in 313 Dark bronze anodized or 628 Clear anodized finish.



## Options

### • Electrification Options

Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (EL), Electric Dogging, Alarm

• Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

## How to Order & Related Products

**8800 Rim Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH	VOLTAGE
88	0	C	M2	36	42	-US32D		-12
88 Life-Safety	00 US Finish	EL Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps	12 Volts
	11 Clear Anodized 628	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass		24 Volts (For EL Option Only)
	22 Dark Bronze Anodized 313	C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless		
	33 Black Anodized 335	ED Electric Dogging				US32D Satin Stainless		
		- No Option						

\* Please note that 30" exit devices cannot accommodate monitoring options, except when ordered in conjunction with the SE option.

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
REX-Monitor/Signal Kits	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry	PS-1, PS-SE, Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier



# 3900 Series Fire-Rated Surface Concealed Vertical Rod Exit Device

# 8900 Series Life-Safety Surface Concealed Vertical Rod Exit Device

The **3900 Series Fire-Rated Surface Concealed Vertical Rod Exit Device** is designed for wood applications that require a fire-rated exit device with concealed vertical top rod and surface concealed actuator single-point latching in header.

The **8900 Series Surface Concealed Vertical Rod Exit Device** is designed for wood applications that require a life-safety exit device with concealed vertical top rod and surface concealed actuator single-point latching in header.

Designed for use in applications with single doors or pairs of doors.

MODEL	TYPE	RATING	DOOR CONSTRUCTION	MAX SIZE SINGLE DOORS	MAX SIZE PAIR & DOUBLE EGRESS
3900	CVR-TRO	1-1/2 hr	Wood Door	4'-0" x 9'-0"	8'-0" x 9'-0"

## Certifications

UL 305 Panic Hardware

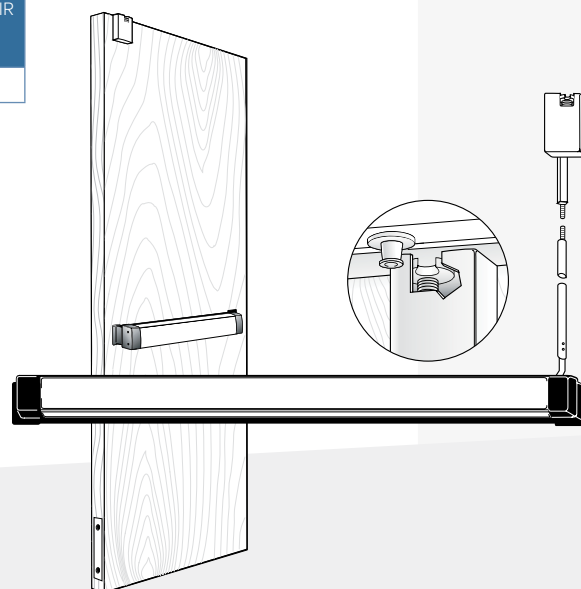
**3900 Only:** UL 10(c) fire-rated, up to 1-1/2 hours

CAN/ULC S104 fire door conformant

NFPA 252 fire door conformant



3900 Only



## Features

### Materials

Push bar made of extruded aluminum, clad or anodized in a variety of finishes.

### Handing

Device is non-handed.

### Push bar Length

Standard sizes: dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

### Bar Height

Standard model adjusts from 30" [762 mm] to 44" [1117.6 mm].

### Door Height

Standard configuration suitable for doors up to 66" [1,676.4 mm] above the selected bar height. For doors over 66" [1,676.4 mm] above bar height, up to 10' [3.05 m] use 3955-01 Tall Door Kit available separately.

### Door Thickness

Suits 1-3/4" [44.5 mm] standard.

### Projection

2-5/8" [66.7 mm] when fully projected, 1-5/8" [41.3 mm] when dogged.

### Dogging

Standard dogging with hex key or with cylinder not available on fire-rated exit devices. Electric dogging option available only.

### Fasteners

Standard self-tapping screws and machine screws. Optional Sex Bolt Kits 26-0584 (two required per device) available separately.

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**Cylinders**

Accepts any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

**Cylinder x Fixed Pull Functions**

For entry trim function 03 (Night latch - key releases latch) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder.

**Entry Trim Functions**

For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

**Bolts and Strikes**

The patented top latching mechanism utilizes a rotating top bolt which deadlatches around the header strike, interlocking the door to the frame. Supplied with standard header strike. Adjustable protected steel rods. The hexagonal, hardened steel bottom bolt is shielded in a cast housing for strength and stability. For wood frames, an additional plate is supplied for securing the header strike.

**Standard Package**

Individually boxed.

**Shipping Weight**

12 lbs [5.44 kg]

**Options**

- Available in top rod only version, less bottom rod. Specify by adding "T" after exit device model number.
- **Electrification Options**  
Silent Electrification Motorized Latch Retraction, Electric Latch Retraction (LR), Electric Dogging, Alarm
- Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

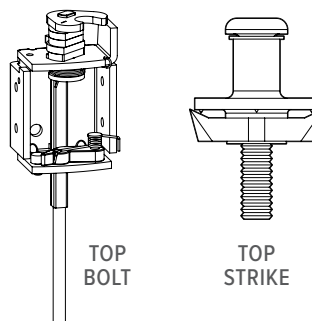
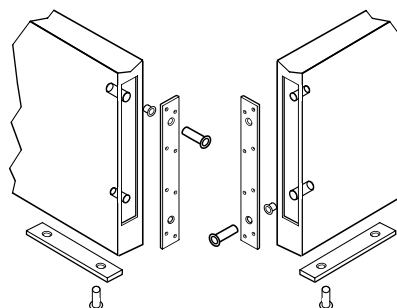


Plate for wood frames  
are furnished with 8900



## How to Order & Related Products

**3700, 8700 Rim Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH	VOLTAGE
37	00	EL	M1	-36		-US3	MEC	-12
37 Fire Rated	00 US Finish	LR Electric Latch Retraction	M Single Switch	30 30 inches*	42 42 inches	US3 Bright Brass	MEC Matching End Caps	12 Volts
87 Life-Safety	01 Clear Anodized 628	SE Silent Electrification Latch Retraction	M2 Dual Switch	36 36 inches	48 48 inches	US4 Satin Brass		24 Volts (For EL Option Only)
	02 Dark Bronze Anodized 313	C Cylinder Dogging (non-fire rated devices ONLY)	(Blank) No Monitor	AXXB Alarmed Exit Device where XX is door opening width		US32 Bright Stainless		
	03 Black Anodized 335	ED Electric Dogging				US32D Satin Stainless		
		- No Option						

\*\* Please note that 30" exit devices cannot accommodate monitoring options, except when ordered in conjunction with the SE option. .

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
26-0584 Sex Bolt Kit (two required per device) REX-Monitor/Signal Kits	Operable by 4036 Mortise Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry, 3001 Fixed Pull (for hollow metal or wood)	PS-SE, PS-LR Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# 8099

## Dummy Push Bar

The 8099 Dummy Push Bar is designed for narrow stile aluminum, hollow metal, and wood applications that do not require a latching/locking life-safety exit device.

### Function

Dummy Push Bar with no latch mechanism but with either single or dual monitor/signal switches. May be used in conjunction with a maglock, where the push bar turns off the magnet and allows exit from the building. Dual switch version allows redundancy where required by code or the operation of a signal device. Designed for applications with single or pairs of doors.



### Features

#### Materials

Push bar made of extruded aluminum, available variety of architectural finishes.

#### Stile Width

- **For hollow metal and wood applications:** minimum 3-3/4" [95.3 mm]
- **For aluminum applications:** minimum 2" [50.8 mm] stile.

#### Fasteners

- **For hollow metal and wood applications:** standard self-tapping screws and machine screws.
- **For aluminum applications:** standard machine screws.

#### Push Bar Length

**Standard sizes:** dimensioned for 30" [762.0 mm], 36" [914.4 mm], 42" [1,066.8 mm], and 48" [1,219.2 mm] openings.

#### Standard Package

Individually boxed.

#### Shipping Weight

6 lbs [2.72 kg].

### Options

- **8099-00:** Inactive dummy push bar only, no switches
- **8099M0:** Active dummy push bar, no monitoring switches
- **8099M1:** Active dummy push bar, single monitoring switch
- **8099M2:** Active dummy push bar, dual monitoring switches
- Available for aluminum, hollow metal and wood applications. Specify door type and width when ordering.
- Optional Sex Bolt Kits 26-0584 (two required per device) available separately.

### How to Order

**8099 Dummy Push bar** Specify quantity and the following information. Order related products separately.

MODEL	MONITOR	DOOR TYPE	PUSH BAR FINISH	WIDTH	US FINISH
8099	-M1	-3	0	36	-US32
	00 Inactive Dummy Bar	3 Aluminum	0 US Finish	30 30 inches	US3 Bright Brass
	M0 Active Dummy Bar, no monitoring switch	4 Wood or Hollow Metal	1 Clear Anodized 628	36 36 inches	US4 Satin Brass
	M1 Active Dummy Bar, one monitoring switch		2 Dark Bronze Anodized 313	42 42 inches	US32 Bright Stainless
	M2 Active Dummy Bar, two monitoring switch		3 Black Anodized 335	48 48 inches	US32D Satin Stainless

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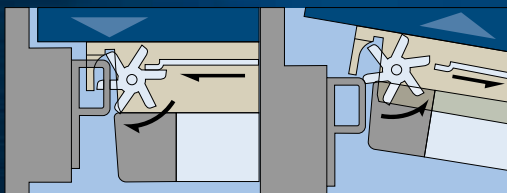
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# Adams Rite 8800

## Narrow Stile Rim Exit Device

Designed for narrow stile aluminum applications with life-safety requirements, the Adams Rite 8800 Narrow Stile Rim Exit Device has a strong, durable construction, a clean unobtrusive design, and is easy to install. The starwheel bolt interlocks the door to the frame to provide solid protection and prevent jamb spread. The 8800 Series exit device is designed for single door applications and pairs of doors with a mullion to provide higher security and better traffic flow; it has less pinch points making it a standard offering in many storefront applications with heavy door traffic.



*When door closes, the nose-guard and starwheel bolt close around the strike, creating a solid interlock between door and frame. When pushbar is depressed, the deadlocking slide moves back, unlocking the door.*

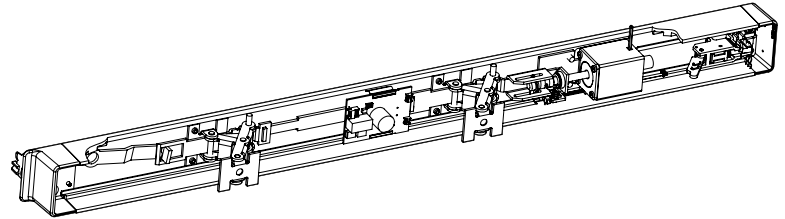
# Options

## for 3000/8000 Series Exit Devices

Adams Rite Exit Devices can be ordered with electrification options for standalone access control or integration with maglocks, card readers, keypads, fire alarms, power door operators, and other control systems. Different exit device types have different installation and power requirements. Please refer to product pages for detailed information.

### Silent Electrification

The SE Silent Electrification Motorized Latch Retraction option provides near-silent operation for quiet environments such as hospitals, offices, hotels, and libraries where solenoid-driven devices would be disruptive. The high speed/low current draw motor (0.4 Amps retraction current, 0.3 Amps hold current) offers a powerful yet efficient system that allows for lighter gauge wiring and an energy-saving reduced amperage power supply. The device also features electric latch



retraction with electric dogging which minimizes hardware projection and noise. The SE option is available with 3000/8000 Series Exit Devices and the RITE Door®.

- Order PS-SE Power Supply separately (PS-SE powers two exit devices). Rated for continuous duty (see POWER). **Adams Rite recommends that for optimal performance**

**all exit devices with the SE option be paired with PS-SE power supplies.**

- 4612 Power Transfer is available separately for secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself.

### Electric Latch Retraction

The EL option for rim exit devices and LR option for all other exit devices (non-rim exit devices) use a solenoid mounted under the pushbar for instantaneous unlocking and locking of the exit device from a remote location or access control device. Because electrical operation of device is fail-secure, this option can be used on fire-rated as well as life-safety applications. In the event of a power failure, device automatically relocks.

#### LR Option

- Solenoids are rated for both intermittent and continuous operation. Solenoid Specifications for CVR, SVR, and Mortise type devices (LR option):
- 16 Amps inrush/ 0.5 Amps hold

- Order PS-LR Power Supply separately for LR option (PS-LR powers two exit devices). Rated for continuous duty (see POWER). Adams Rite recommends that for optimal performance all CVR, SVR, and mortise type exit devices with the LR option are installed and powered using PS-LR power supplies.
- 4612 Power Transfer is available separately for secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself.

#### EL Option

Rim devices with the EL option are available in 12 or 24 VDC, and can be powered with a simple transformer and rectifier or other DC power supply.

- EL-12 VDC – 1.5 Amps inrush/hold

- EL-24 VDC – 0.6 Amps inrush/hold
- Solenoids are rated for both intermittent and continuous operation. Only rim exit devices with the “EL” application are available with mechanical dogging, specify “ELD”
- Order PS-1 Power Supply separately for EL option (PS-1 powers two exit devices). Rated for continuous duty (see POWER). Adams Rite recommends that for optimal performance all rim exit devices with the EL option are installed and powered using PS-1 power supplies.
- 4612 Power Transfer is available separately for secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself.

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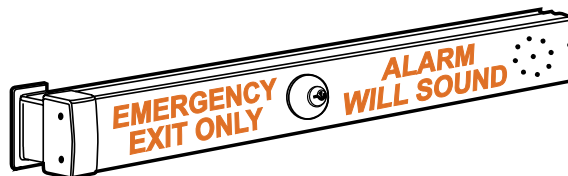


# Options for 3000/8000 Series Exit Devices Continued Devices

## Alarm

Suitable for all Adams Rite exit devices 36" wide or greater. This battery-operated alarm option emits a loud 95 decibel alarm to notify management of unauthorized exit. Alarm is controlled by a key in standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. The cylinder is used to arm, disarm, delay,

or reset the alarm. Will not alter the life-safety characteristics of the exit device in any way. Red letters printed on the bar give a "hands off" warning to deter accidental activation. Four AA alkaline batteries power twin horns for two minutes (or until disarmed)

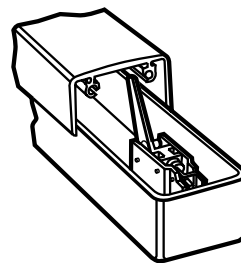


when pushbar is depressed. Beeps to signal need for new batteries.

## Monitor

Mounted under the exit device pushbar on the hinge end, switches may be used to activate signal light, horn, monitor, or other devices. Switches can be wired for normally open or normally closed. Can be retrofit in field to existing exit devices. Dual switch version offers redundancy as required by some building codes or it can operate a second signaling device. Suitable for all Adams Rite exit devices.

- Order Monitor/Signal Kits for upgrading any 3000 or 8000 Series device: 91-0897-01 for Single Monitoring Switch Kit or 91-0897-02 for Dual Monitoring Switch Kit.
- **M1:** Single monitoring switch
- **M2:** Dual monitoring switches



## Cylinder Dogging

Suitable for all non-fire rated Adams Rite exit devices that require management control of exit device dogging. Any standard 15/16" [23.8 mm] to 1-1/8" [28.6 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise

Cylinder can be used in a pushbar prepared at factory with Cylinder Dogging kit. Cannot be ordered with any other exit device options.



# Options for 3000/8000 Series Exit Devices Continued Devices

## Electric Dogging

The ED option uses a holding magnet that keeps the pushbar depressed once it is set manually, and keeps the latch retracted for a lower profile exit device, resulting in less damage and quieter operation. An internal microswitch signals when the bar is depressed – ideal for automatic door operators. On fire-rated devices, the ED option must be wired through the fire alarm

system. Devices operate at 24 VDC at 0.6 Amps, with only a transformer and rectifier. Suitable for all Adams Rite exit devices. Not to be used as an access control element. SE Silent Electrification Motorized Latch Retraction option or LR Latch Retraction option is recommended with access control devices such as card readers or keypads.



## Matching End Caps

Standard Adams Rite exit devices come with black metal end caps. Matching end caps are available for applications where it is preferable that the end caps match the finish of the exit device. Available for US finishes only. Specify by adding “MEC” after the regular ordering matrix.

## Trim

### 3080 Series Entry Trim

3080 Series Entry Trim provides outside activation for doors with any type of Adams Rite exit device or deadlatch. The locked handle is protected from vandalism and forced entry with a breakaway clutching mechanism.

### 3090 eForce® Keyless Entry

3090 eForce Keyless Entry provides access control for Adams Rite deadlocks, deadlatches, and exit devices for aluminium, hollow metal and wood door applications.

The battery-operated eForce 3090-150 provides basic access control for

openings not requiring audit trail. The eForce 3090P (Prox) and 3090C (iCLASS®) provide hardwired security with HID® Prox or iCLASS contactless card readers.

Please see the TRIM section of the catalog for additional information.





# EX88

## Interlocking Rim Exit Device

The EX88 Interlocking Rim Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device. The EX88 features a unique bolt design that interlocks the door to the frame for enhanced strength and durability.

### Function

When the door closes, the bolt guard and interlocking bolt close around the strike. The deadlocking slide springs over, which interlocks the bolt to the strike. When the active pushbar is depressed, the deadlocking slide moves back, which allows the door to open by unlocking from the strike. This unique interlocking bolt design provides unique strength and solid security, and prevents jamb spreading.

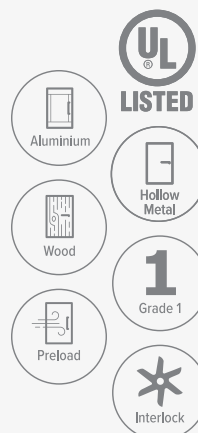
Exit device capable of opening under 20 lbs preload.

Suitable for use on single doors, or with mullion on pairs of doors. Suited for high, medium and low traffic areas on aluminum, hollow metal and wood applications.

### Certifications

UL 305 Panic Hardware

ANSI/BHMA A156.3-2014 Grade 1



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## Features

### Materials

Active pushbar and back bar made of extruded aluminum. Matching metal angled end caps.

### Handing

Device is non-handed.

### Door Thickness

- Suitable for use with all door thickness.
- May be used with trim on 1-3/4" thick doors, up to 2-1/4" door thickness.
- When cylinders are required, select rim cylinder length based upon door thickness.

### Stile Width

Minimum 2" stile. Fits ultra-narrow, narrow, medium and wide stile aluminum doors.

### Projection

2-1/2" when fully projected,  
1-3/4" when dogged.

### Dogging

Standard dogging with 3/16" hex key.

### Fasteners

Device mounted using standard self-tapping screws. Hardware is not visible from back when installed. Adhesive templates for mounting included.

### End Caps

Mounting end cap with 1/4" overlap for cut coverage.

### Universal Hardware Kit

Hardware kit is suitable for aluminum, hollow metal, and wood door applications.

### Strike

Strike made of hardened steel. Standard strike suitable for centering doors in 4" jamb. Strike plate adjusts 1/4" horizontally.

### Cylinders

Select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately. Cylinders with MS® cams can be readily obtained from most cylinder manufacturers. See CYLINDERS section for cylinder information.

### Trim

Compatible with Adams Rite 3080 Series Entry Trim and 3090 Series Entry Trim. See TRIM section for cylinder information.

### Noise Reduction

- Impact bumpers to reduce noise from the initial device activation
- Return control to dampen the sound and control the device returning to its resting state
- Horizontal and vertical guides decrease the scraping sound of the active push bar on the static back bar

### Device Length

EXIT DEVICE LENGTH	STANDARD DOOR OPENING WIDTH	ACTIVE PUSHBAR LENGTH (AS MEASURED WITH END CAPS)	BACK BAR LENGTH
Regular (R)	30" – 36" [762 mm – 914.4 mm]	24" [609.6 mm]	32-1/8" [816 mm]
Mid-length (M)	30" – 42" [762 mm – 1,066.8 mm]	24" [609.6 mm]	38-1/8" [968.4 mm]
Long (L)	42" – 48" [1,066.8 mm – 1,219.2 mm]	30" [762 mm]	44-1/8" [1120.8 mm]

- Device may be field cut to fit opening width between standard lengths by cutting the back bar and filler plate.

### Standard Package

Individually boxed.

### Shipping Weight

10 lbs [4.54 kg]

## Options

- Pushbar and back bar available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized. Metallic end caps finished to match exit device.
- **Alarm\***: Dual signal switch
- **Monitor\***: Alarmed exit device with field selectable power source; battery operated or hard wired.\* Options are field installable or factory installed

\* Options are field installable or factory installed

For more detailed information on any of the options listed above please see the EX Series Options on page 109 of this catalog.

## How to Order & Related Products

**EX88 Interlocking Rim Exit Device:** Specify quantity and the following information. Order related products separately.

MODEL	LENGTH	FINISHES	DEVICE OPTIONS
EX88	R	628	M
	R Regular (36")	313 Dark Bronze Anodized	(blank) Standard, no options
	M Mid-length (42")	335 Black Anodized	A Alarmed
	L Long (48")	628 Clear Anodized	M Monitoring

**RELATED** When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	TRIM	POWER
EX-Alarm 36" Kit, EX-Alarm 48" Kit, EX-Mtg Cap Kit, EX-Push Bar Endcap Kit, EX-Filler Plate, EX-Monitor, EX-Backbar 628, EX-Pushbar 628, EX-Hex Dog EX88-Mullion	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry	PS-1 Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier

# EX89

## Pullman Rim Exit Device

The EX89 Pullman Rim Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device. The EX89 features a 3/4" Pullman latch bolt that is compatible with the Adams Rite 74R1 Electric Strike for narrow stile aluminum applications.

### Function

When the door closes, the Pullman latch bolt nests inside the strike assembly and the smaller deadlatch rests on the strike assembly activating the deadlatching feature. When the active pushbar is depressed, both the Pullman latch bolt and the smaller deadlatch are retracted, allowing the door to open.

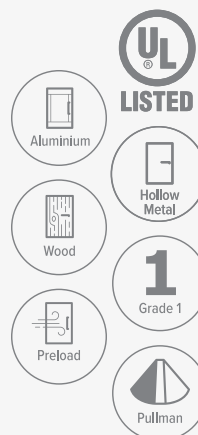
Exit device capable of opening under 20 lbs preload.

Designed for use on single doors, or with mullion on pairs of doors. Suitable for low, medium and high traffic areas on aluminum, hollow metal and wood applications.

### Certifications

UL 305 Panic Hardware

ANSI/BHMA A156.3-2014 Grade 1



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Device Length

EXIT DEVICE LENGTH	STANDARD DOOR OPENING WIDTH	ACTIVE PUSHBAR LENGTH (AS MEASURED WITH END CAPS)	BACK BAR LENGTH
Regular (R)	30" – 36" [762 mm – 914.4 mm]	24" [609.6 mm]	32-1/8" [816 mm]
Mid-length (M)	30" – 42" [762 mm – 1,066.8 mm]	24" [609.6 mm]	38-1/8" [968.4 mm]
Long (L)	42" – 48" [1,066.8 mm – 1,219.2 mm]	30" [762 mm]	44-1/8" [1120.8 mm]

- Device may be field cut to fit opening width between standard lengths by cutting the back bar and filler plate.

End Caps

Mounting end cap with 1/4" overlap for cut coverage.

Universal Hardware Kit

Hardware kit suitable for aluminum, hollow metal, and wood door applications.

Strike

- Horizontally adjustable strike assembly body made of cast aluminum with hardened steel roller. Standard strike assembly suitable for centering doors in 4" jamb. Strike plate adjusts 1/4" horizontally.
- Optional wider strike assembly available to cover prep of existing Adams Rite 8800 Rim Exit Device strike plate, available separately.

Cylinders

Select standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately. Cylinders with MS® cams can be readily obtained from most cylinder manufacturers. See CYLINDERS section for cylinder information.

Trim

Compatible with Adams Rite 3080 Series Entry Trim and 3090 Series Entry Trim. See TRIM section for cylinder information.

Noise Reduction

- Impact bumpers to reduce noise from the initial device activation
- Return control to dampen the sound and control the device returning to its resting state
- Horizontal and vertical guides decrease the scraping sound of the active push bar on the static back bar

Standard Package

Individually boxed.

Shipping weight

10 lbs [4.54 kg]

Options

- Pushbar and backbar available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized. Metallic end caps finished to match exit device.
- **Alarm\***: Dual signal switch
- **Monitor\***: Alarmed exit device with field selectable power source; battery operated or hard wired.\* Options are field installable or factory installed

\* Options are field installable or factory installed

For more detailed information on any of the options listed above please see the EX Series Options on page 109 of this catalog.

Features

Materials

Active pushbar and back bar made of extruded aluminum. Matching metal angled end caps.

Handing

Device is non-handed.

Door Thickness

- Suitable for use with all door thickness.
- May be used with trim on 1-3/4" thick doors, up to 2-1/4" door thickness.
- When cylinders are required, select rim cylinder length based upon door thickness.

Stile Width

Minimum 2" stile. Fits ultra-narrow, narrow, medium and wide stile aluminum doors.

Projection

2-1/2" when fully projected, 1-3/4" when dogged.

Dogging

Standard dogging with 3/16" hex key.

Fasteners

Device mounted using standard type 'F' self-tapping screws. Hardware is not visible from back when installed. Adhesive templates for mounting included.

How to Order, Related & Compatible Products

EX89 Pullman Rim Exit Device: Specify quantity and the following information. Order related products separately.

MODEL	LENGTH	FINISHES	DEVICE OPTIONS
EX89	R	628	A
	R Regular (36")	313 Dark Bronze Anodized	(blank) Standard, no options
	M Mid-length (42")	335 Black Anodized	A Alarmed
	L Long (48")	628 Clear Anodized	M Monitoring

COMPATIBLE

ELECTRIC STRIKES
74R1 Electric Strike
HES 9600 Electric Strike

RELATED When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	ELECTRIC STRIKES	TRIM	POWER
EX-Alarm 36" Kit, EX-Alarm 48" Kit, EX-Mtg Cap Kit, EX-Push Bar Endcap Kit, EX-Filler Plate, EX-Monitor, EX-Backbar 628, EX-Pushbar 628, EX-Hex Dog EX89-Mullion EX89-Retrofit Strike Kit	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	74R1 Electric Strike	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry	PS-1 Power Supply, 4612 Power Transfer Device, 4605 Transformer, 4603 Rectifier



# EX76

## Concealed Vertical Rod Exit Device

The EX76 CVR Exit Device is designed for narrow stile aluminum applications that require a life-safety exit device with concealed vertical rods for two-point locking. The EX76 design features easily adjustable concealed rods and latching assembly designed for easy installation, maintenance, and adjustment.

### Function

When the door closes, the latching assemblies extend into the header and threshold, locking the door at two points. When the active pushbar is depressed, both the top and bottom latching assemblies are retracted, allowing the door to open.

Designed for use on single or pairs of doors. Suitable for low, medium and high traffic areas on aluminum and hollow metal applications.

### Certifications

UL 305 Panic Hardware



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### Features

#### Materials

Active pushbar and back bar made of extruded aluminum. Matching metal angled end caps.

#### Handing

Device is non-handed.

#### Door Thickness

Suits 1-3/4" standard, up to 2-3/4" door thickness. Thick door kit required when used with cylinder in doors over 1-3/4".

#### Door Height

- Standard unit adjustable to maximum 96" door height with device mounted at 34" centerline above finished floor, up to 62" above the selected bar height.
- Tall door kit required when used in doors taller than 96". Maximum door height 120".
- Bolt projection easily adjustable. Projection will change 1/8" for every 3 full rotations of the bolt, to a maximum of 5/8" throw.

#### Stile Width

Minimum 2-1/2" stile. Fits narrow, medium and wide stile aluminum doors.

#### Stile Wall

Suitable for doors with up to 3/16" stile wall thickness.

#### Bar Height

Standard model adjusts from 34" to 44" above finished floor.

#### Projection

2-1/2" when fully projected, 1-3/4" when dogged.

#### Dogging

Standard dogging with 3/16" hex key.

#### Fasteners

Device mounted using standard type 'F' self-tapping screws and machine screws. Hardware is not visible from back when installed. Adhesive templates for mounting included.

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### End Caps

Mounting end cap with 1/4" overlap for cut coverage.

### Universal Hardware Kit

Hardware kit is suitable for aluminum, hollow metal, and wood door applications.

### Strike

- Header strike made of hardened steel.
- When properly adjusted to 1/8" door gap the supplied curved strike functions to consistently engage the bolt, which enhances the reliability of the door latching function.

### Cylinders

- Select any standard 1" to 1-1/4" [25.4 mm to 31.8 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Available separately. Cylinders with MS® cams can be readily obtained from most cylinder manufacturers. See CYLINDERS section for cylinder information.
- If key entry operation is required, any standard mortise cylinder with MS® cam may be installed using an EX76-Escutcheon, available separately.

### Trim

Compatible with Adams Rite 3080 Series Entry Trim and 3090 Series Entry Trim. See TRIM section for cylinder information.

### Noise Reduction

- Impact bumpers to reduce noise from the initial device activation
- Return control to dampen the sound and control the device returning to its resting state
- Horizontal and vertical guides decrease the scraping sound of the active push bar on the static back bar

### Standard Package

Individually boxed.

### Shipping weight

11 lbs [4.99 kg]

### Device Length

EXIT DEVICE LENGTH	STANDARD DOOR OPENING WIDTH	ACTIVE PUSHBAR LENGTH (AS MEASURED WITH END CAPS)	BACK BAR LENGTH
Regular (R)	30" – 36" [762 mm – 914.4 mm]	24" [609.6 mm]	32-1/8" [816 mm]
Mid-length (M)	30" – 42" [762 mm – 1,066.8 mm]	24" [609.6 mm]	38-1/8" [968.4 mm]
Long (L)	42" – 48" [1,066.8 mm – 1,219.2 mm]	30" [762 mm]	44-1/8" [1120.8 mm]

- Device may be field cut to fit opening width between standard lengths by cutting the back bar and filler plate.

## Options

- Pushbar and back bar available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized. Metallic end caps finished to match exit device.
- Alarm\***: Dual signal switch
- Monitor\***: Alarmed exit device with field selectable power source; battery operated or hard wired.\* Options are field installable or factory installed

\* Options are field installable or factory installed

For more detailed information on any of the options listed above please see the EX Series Options on page 109 of this catalog.

## How to Order

EX76 Concealed Vertical Rod Exit Device: Specify quantity and the following information. Order related products separately.

MODEL	LENGTH	FINISHES	DEVICE OPTIONS
EX76	R	628	A
	R Regular (36")	313 Dark Bronze Anodized	(blank) Standard, no options
	M Mid-length (42")	335 Black Anodized	A Alarmed
	L Long (48")	628 Clear Anodized	M Monitoring



# EX80

## Dummy Push Bar

The EX80 Dummy Push Bar is designed for applications that do not require a latching/locking life-safety exit device. The flexible EX80 design comes standard with two monitoring switches, and is field selectable for active or inactive configuration.

### Function

Dummy Push Bar with no latching mechanism is designed for use with a maglock or other locking device. When the active pushbar is depressed, the magnet is turned off, which allows egress from the building. Two monitoring switches allow for redundancy where required by code or the operation of a signal device. Device is field selectable for active or inactive configuration.

Designed for use on single or pairs of doors. Suitable for low, medium and high traffic areas on aluminum, hollow metal and wood applications.

### Certifications

UL 294 Access Control System Units, Sixth Edition

NFPA 101 Life Safety Code



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## Features

### Materials

Active pushbar and back bar made of extruded aluminum. Matching metal angled end caps.

### Handing

Device is non-handed.

### Door Thickness

Suitable for use with all door thickness.

### Stile Width

Minimum 2" stile. Fits ultra-narrow, narrow, medium and wide stile aluminum doors.

### Projection

Active configuration

- 2-1/2" when fully projected, 1-3/4" when dogged.

Inactive configuration

- 2-1/2" when inactive fully projected, 1-3/4" when inactive dogged down.

### Fasteners

Device mounted using standard self-tapping screws. Hardware is not visible from back when installed. Adhesive templates for mounting included.

### End Caps

Mounting end cap with 1/4" overlap for cut coverage.

### Universal Hardware Kit

Hardware kit is suitable for aluminum, hollow metal, and wood door applications.

### Noise Reduction

- Impact bumpers to reduce noise from the initial device activation
- Return control to dampen the sound and control the device returning to its resting state
- Horizontal and vertical guides decrease the scraping sound of the active push bar on the static back bar

### Monitoring

Comes standard with two monitoring switches. Decice is field selectable active or inactive configuration.

### Standard Package

Individually boxed.

### Shipping Weight

8 lbs [3.63 kg].

## Options

- Pushbar and backbar available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized. Metallic end caps finished to match exit device.

### Device Length

EXIT DEVICE LENGTH	STANDARD DOOR OPENING WIDTH	ACTIVE PUSHBAR LENGTH (AS MEASURED WITH END CAPS)	BACK BAR LENGTH
Regular (R)	30" – 36" [762 mm – 914.4 mm]	24" [609.6 mm]	32-1/8" [816 mm]
Mid-length (M)	30" – 42" [762 mm – 1,066.8 mm]	24" [609.6 mm]	38-1/8" [968.4 mm]
Long (L)	42" – 48" [1,066.8 mm – 1,219.2 mm]	30" [762 mm]	44-1/8" [1120.8 mm]

- Device may be field cut to fit opening width between standard lengths by cutting the back bar and filler plate.

## How to Order

EX80 Dummy Push Bar: Specify quantity and the following information. Order related products separately.

MODEL	LENGTH	FINISHES
EX80	R	628
	R Regular (36")	313 Dark Bronze Anodized
	M Mid-length (42")	335 Black Anodized
	L Long (48")	628 Clear Anodized

# Options

## for EX Series Exit Devices

### Alarm

EX Series Alarmed exit device emits a loud alarm 85 decibels measured at 10 feet to notify management of unauthorized exit. If the pushbar is depressed when device is armed, the alarm will sound for two minutes, or until the device is disarmed. Alarm is controlled by standard mortise cylinder with MS® cam to arm, disarm, delay, or reset the alarm. Will not alter the life-safety characteristics of the exit device.

The EX Series Alarm option features field-selectable power source: battery or hard-wired. This option may be installed as a standalone 9V battery operated system (battery not included) or hard-wired to a 12/24 VDC power supply. Current draw from battery is less than 10uA, except when alarm sounding or LED status indicators are on.

User feedback arm, disarm and low battery warning via LED and audible beeps. Red and green LEDs indicate unit status, with red LED indicating armed status, green LED indicating disarmed status. The unit may be armed with delay or immediate arm.

#### The unit includes five selectable dip switches

1. Low Battery Warning: ON low battery annunciation, OFF no low battery annunciation.
2. Annunciation: ON when disarmed two short tones will sound when bar is depressed, OFF no annunciation.
3. LED Status Indication: ON LED indicators active, OFF no LED indication.
4. Auto Rearm: ON auto rearm, OFF no auto rearm.
5. Post Alarm Reminder: ON post alarm reminder chirp, OFF no post alarm reminder chirp.

#### Electrical Requirements

- 9V battery and/or
- 100mA@ 12/24 VDC

### Monitor

Mounted in the exit device backbar under the active pushbar, the dual switch assembly can be used to activate signal light, horn, monitor, or other devices. Switch assembly can be wired for normally open or normally closed. Monitoring Kit Assembly may be installed at the factory or in the field to existing EX Series exit devices. Dual switch assembly offers redundancy as required by some building codes or may be used to operate a second signaling device.

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800.872.3267 800.232.7329 [adamsrite.com](http://adamsrite.com)

10027 S. 51st Street, Ste 102, Phoenix, Arizona 85044



# Adams Rite Raises the Bar with New Exit Devices

The new Adams Rite EX Series Exit Devices feature flexible, robust designs, with simple and adjustable installation, providing a superior user-experience, all wrapped up with beautiful aesthetics.

The new EX Series includes the **EX88 Interlocking Rim Exit Device**, with a robust and unique bolt design that interlocks the door to frame for enhanced strength and durability, the **EX89 Pullman Rim Exit Device** which is compatible with Adams Rite preload capable 74R1 Electric Strike, the **EX76 CVR Exit Device** with concealed adjustable rods and latching assemblies designed for easy installation, and the **EX80 Dummy Push Bar** whose flexible design comes standard with two monitoring switches and is field selectable for active or inactive configuration.

# 7100 Series

## Electric Strikes for Adams Rite Deadlatches and Cylindrical Locks

Designed for use with Adams Rite deadlatches or cylindrical locksets with 1/2" [12.7 mm] to 5/8" [15.9 mm] latchbolt projection. For use in aluminum, hollow metal, or wood applications.

### Function

Remote electrical control of any door equipped with an Adams Rite 4500, 4700 (discontinued), or 4900 Deadlatch or cylindrical lockset with 1/2" [12.7 mm] to 5/8" [15.9 mm] latchbolt projection. Electrical actuation unlocks the keeper, releasing the latchbolt so the door may be opened without operating the latch itself.

### Specifications

UL 1034 burglary-resistant listed

UL 294 (6th Edition) listed



LISTED

1  
Grade 1



Burglary  
Listed



Electrified  
Product



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# Features

## Case

1" x 3-3/8" x 1-5/8" deep  
[25.4 mm x 85.7 mm x 41.3 mm deep].

## Strike Opening

5/8" x 1-7/16" x 1/2" deep  
[15.9 mm x 36.5 mm x 12.7 mm deep].  
Bolt retaining keeper is stainless steel.  
Strike accepts bolt of any Adams Rite 4500, 4700 (discontinued), or 4900 Deadlatch or cylindrical latches.

## Strike Lip

Basic strike has lip of proper length for 1-3/4" [44.5 mm] thick door that closes flush with jamb edge. Where door thickness or jamb shape differs from this standard relationship, lip extension kits are available, specified by last dash number.

- Lip extension kits not available on 7101 or 7131.

## Latchbolt Projection

1/2" to 5/8" [12.7 mm to 15.9 mm]

## Faceplate

Available in a variety of architectural finishes.

7100	1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]	Flat with radius corners
7101	1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]	Radiused to match nose on inactive leaf in a pair of narrow stile doors.
7110	1-7/16" x 7-15/16" [36.5 mm x 201.6 mm]	Flat with radius corners
7111	1-7/16" x 10-1/4" [36.5 mm x 260.4 mm]	Flat with radius corners
7130	1-1/4" x 6-7/8" [31.8 mm x 174.6 mm]	Flat with radius corners
7131	1-1/4" x 6-7/8" [31.8 mm x 174.6 mm]	Radiused to match nose on inactive leaf in a pair of narrow stile doors
7140	1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]	Flat with square corners

7130/7131: Large 6-7/8" faceplate is designed to cover strike opening when converting from an MS® pivoted-bolt deadlock to deadlatch.

## Standard Package

Individually boxed with mounting screws, mounting clips, adhesive shims to accommodate jamb or stile extrusion thickness greater or less than nominal 1/8" [3.2 mm].

7140 Includes mounting clips and adhesive shims for use where welded tabs are omitted.

## Shipping Weight:

2 lbs [0.91 kg].

# Electrical

## Current Draw

0.33A at 12 VDC      1.42A at 12 VAC  
0.22A at 16 VDC      0.63A at 16 VAC  
0.17A at 24 VDC      0.74A at 24 VAC

## Voltage

Available in 12, 16, or 24 Volt AC and DC. DC continuous units are silent, AC intermittent units “buzz” on operation.

## Fail Safe | Fail Secure

Field selectable at time of installation. However, AC intermittent solenoid must not be used continuously in either.

# Options

- Available with two Form ‘C’ monitoring switches to indicate when the latchbolt is engaged in the strike and whether the strike jaw is blocked.  
Not available on 7130/7131, 7140.
- Lip extension kits for various dimensions of door centerline to jamb edge; for flat faceplates only.  
Not available on 7101 or 7131.
- Modular Packaging**  
Match one strike body kit with one faceplate kit to make a complete electric strike. Faceplate kits contain all hardware to mount electric strike. Please contact factory or sales representative for details.

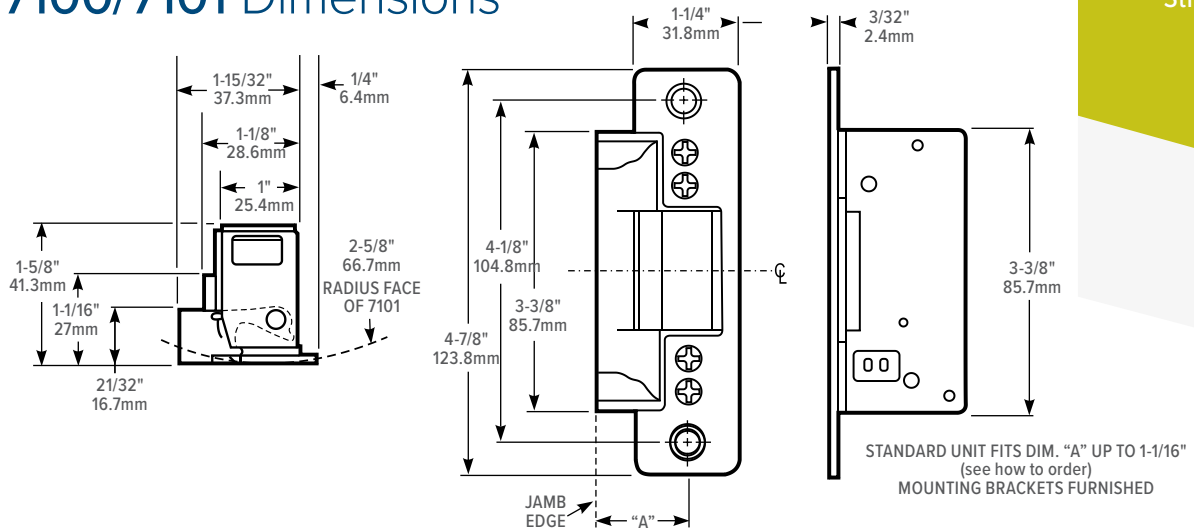
# Related Products

## 7100/7101, 7110/7111, 7130/7131, 7140

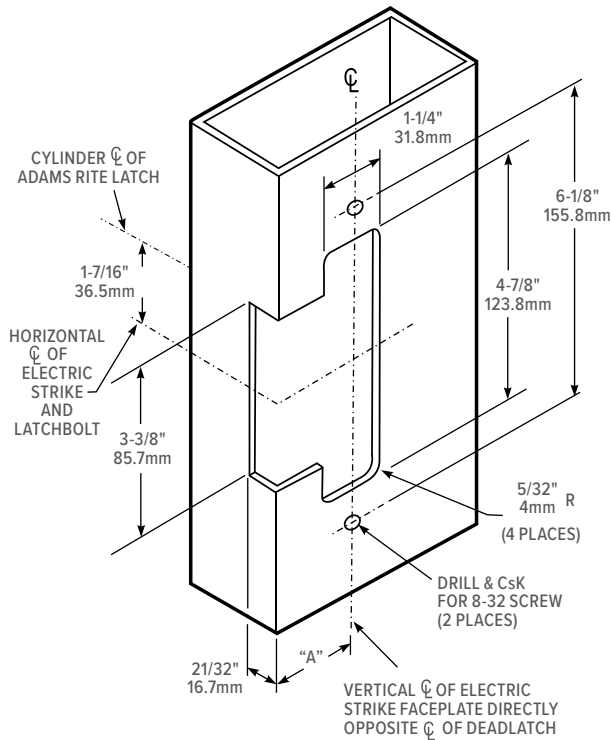
When purchasing this product, please consider the following related products, available separately:

OPTIONS & ACCESSORIES	POWER	DEADLATCHES	EXIT DEVICES
Lip Extension Kits, Modular Kits, Monitor Kits	4603 Rectifier, 4605/4606 Transformer, Piezo Horn audible indicator, PS-1, ElectroLynx connector	4510, 4530, 4900, 4920AN Series Deadlatches	8300, 8400 Mortise Exit Device

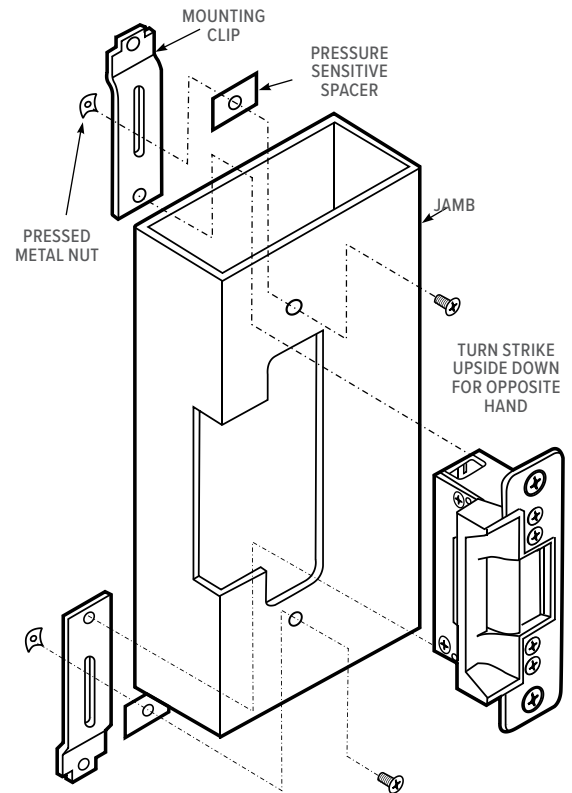
## 7100/7101 Dimensions



## Jamb Preparation



## Installation



## How to Order

**7100/7101 Electric Strikes:** Specify quantity and the following information. Order related products separately.

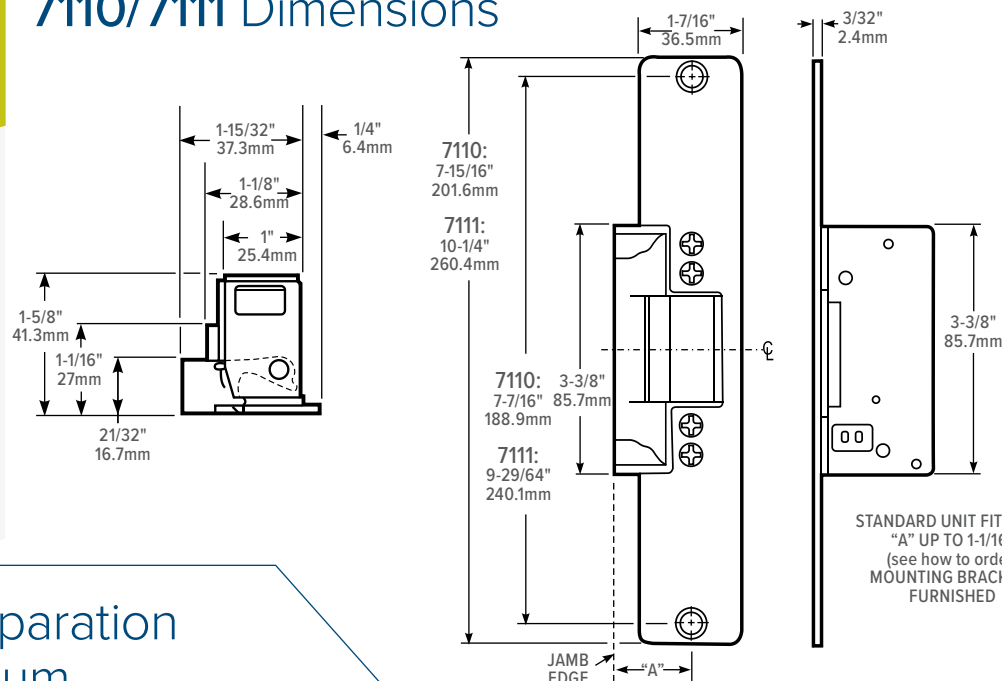
MODEL	FACEPLATE SHAPE	VOLTAGE	CURRENT AND DUTY	FEATURES*	FINISH**	LIP EXTENSIONS (DIM. A)*** (DOOR CENTERLINE TO JAMB EDGE)
710	0	-3	1	0	-628	-00
	0 Flat	3 12 Volt	1 DC Continuous or Intermittent	0 Standard/Fail-Secure	313 Dark Bronze Anodized	00 1-1/16" or less
	1 Radius	4 16 Volt	4 AC Intermittent	5 Fail-Safe	335 Black Anodized	01 1-1/2"
		5 24 Volt		7 Monitored/ Fail-Safe	626 Satin Chrome	02 1-5/8"
				9 Monitored/ Fail-Secure	628 Clear Anodized	03 1-3/4"
						05 2"
						07 2-1/4"
						09 2-1/2"
						12 2-7/8"

\*Fail-secure can be field converted to fail-safe or vice-versa. \*\*7101 available in 313, 335, 628 only. \*\*\*Lip Extensions not available on 7101.

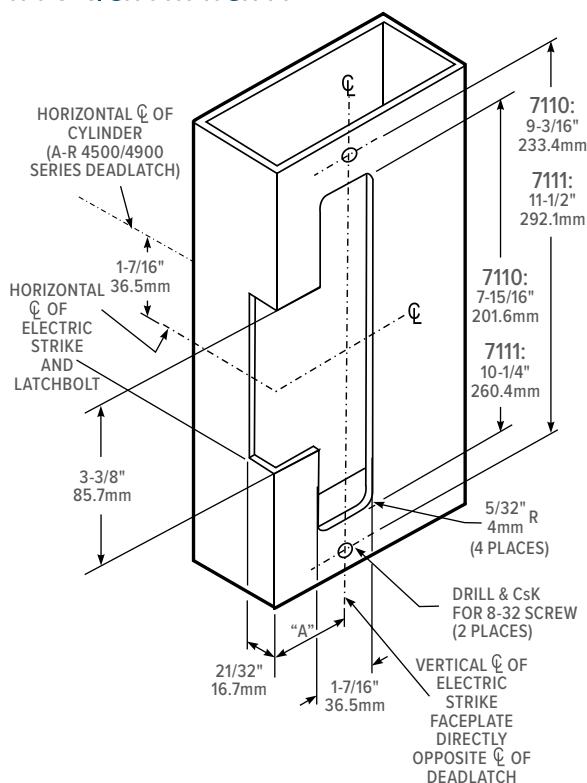


All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

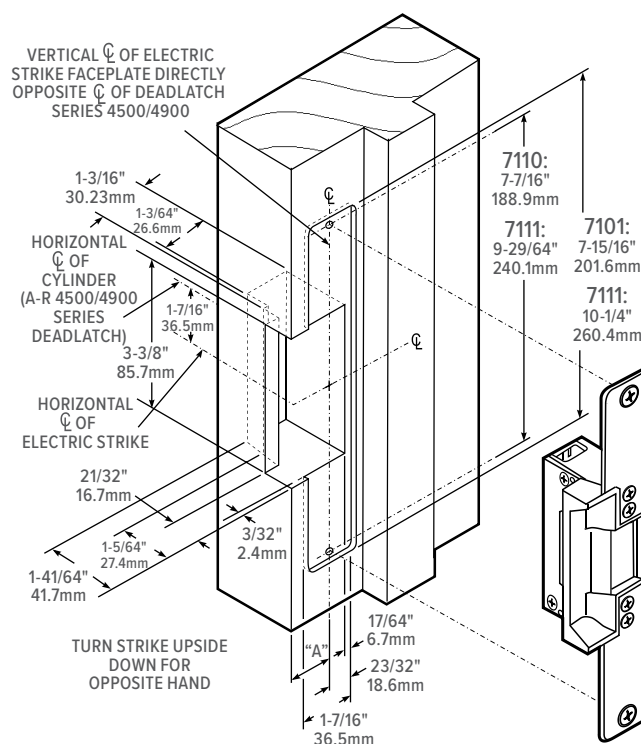
## 7110/7111 Dimensions



## Jamb Preparation in Aluminium



## Installation in Wood



## How to Order

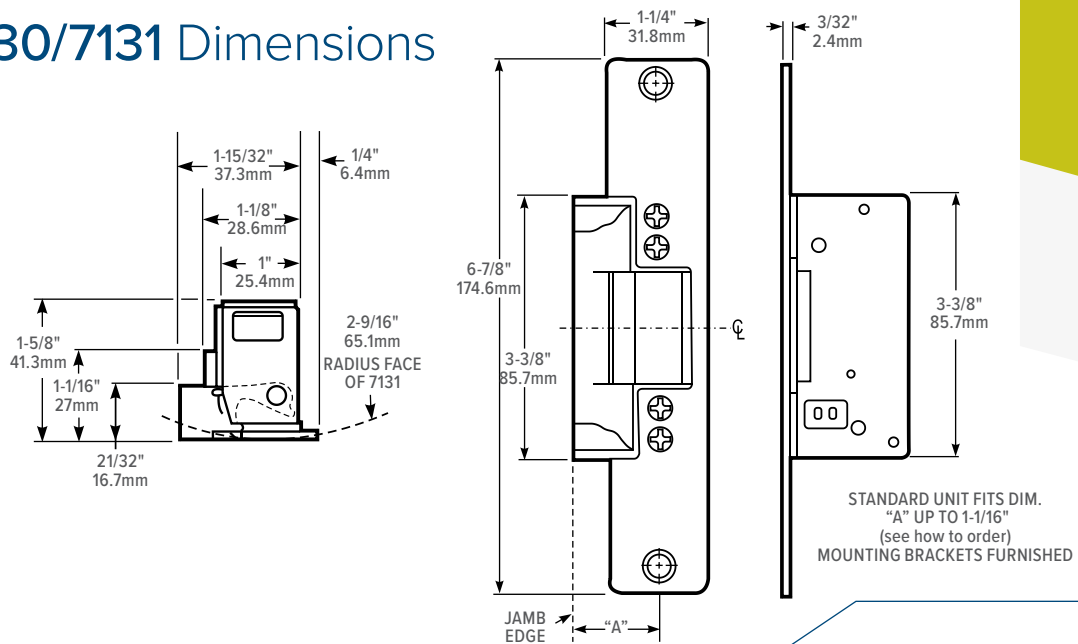
**7110/7111 Electric Strikes:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE LENGTH	VOLTAGE	CURRENT AND DUTY	FEATURES*	FINISH	LIP EXTENSIONS (DIM. A) (DOOR CENTERLINE TO JAMB EDGE)	
711	0	-3	1	0	-652	-00	
	0 7-15/16"	3 12 Volt	1 DC Continuous or Intermittent	0 Standard/Fail-Secure	652 Satin Chrome	00 1-1/16" or less	05 2"
	1 10-1/4"	4 16 Volt	4 AC Intermittent	5 Fail-Safe		01 1-1/2"	07 2-1/4"
		5 24 Volt		7 Monitored/ Fail-Safe		02 1-5/8"	09 2-1/2"
				9 Monitored/ Fail-Secure		03 1-3/4"	12 2-7/8"

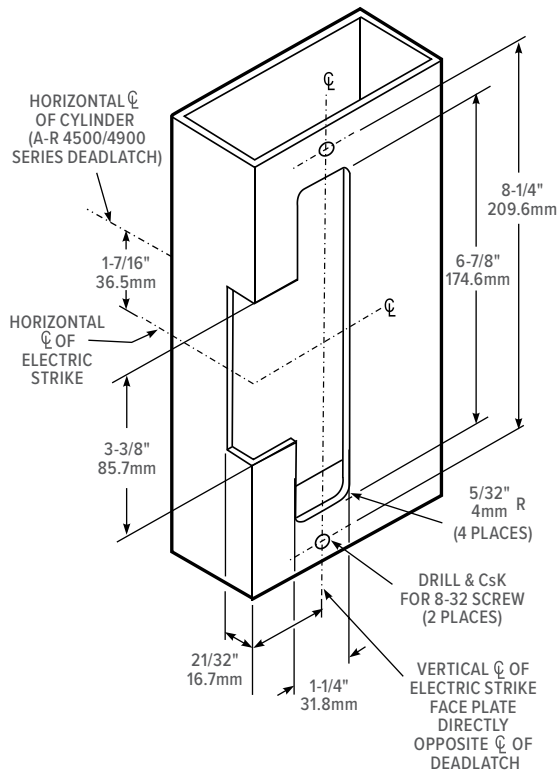
\*Fail-secure can be field converted to fail-safe or vice-versa



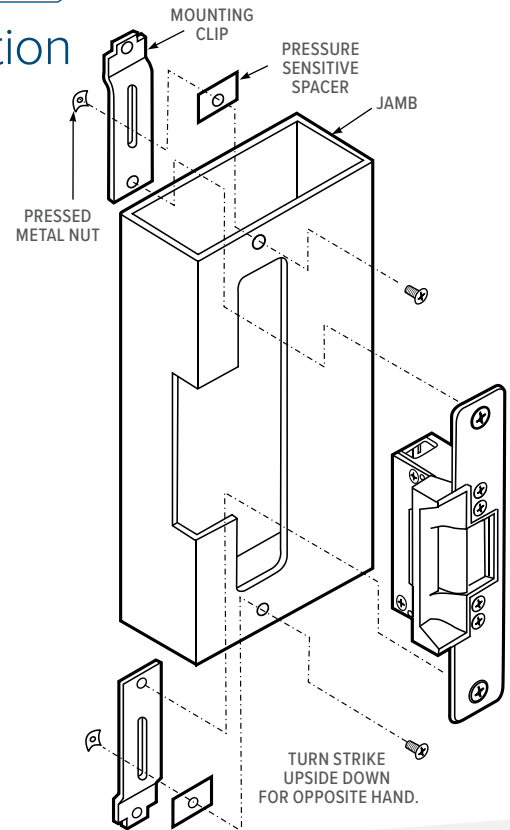
## 7130/7131 Dimensions



## Jamb Preparation



## Installation



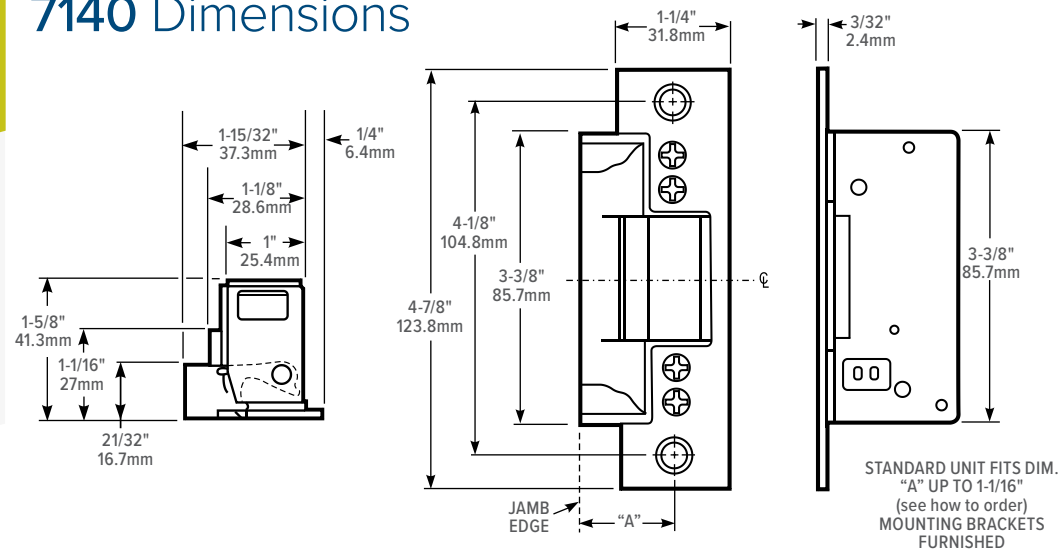
## How to Order

**7130/7131 Electric Strikes:** Specify quantity and the following information. Order related products separately.

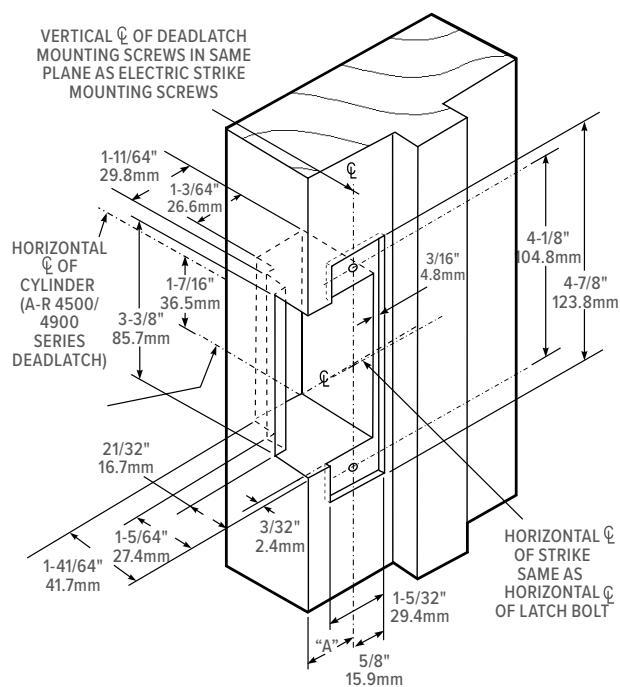
MODEL	FACEPLATE SHAPE	VOLTAGE	CURRENT AND DUTY	FEATURES*	FINISH	LIP EXTENSIONS (DIM. A)** (DOOR CENTERLINE TO JAMB EDGE)	
713	0	-3	1	0	-313	-00	
	0 Flat	3 12 Volt	1 DC Continuous or Intermittent	0 Standard/Fail-Secure	313 Dark Bronze Anodized	00 1-1/16" or less	05 2"
	1 Radius	4 16 Volt	4 AC Intermittent	5 Fail-Safe	335 Black Anodized	01 1-1/2"	07 2-1/4"
		5 24 Volt			628 Clear Anodized	02 1-5/8"	09 2-1/2"
						03 1-3/4"	12 2-7/8"

\*Fail-secure can be field converted to fail-safe or vice-versa. \*\*Lip Extensions not available on 7131.

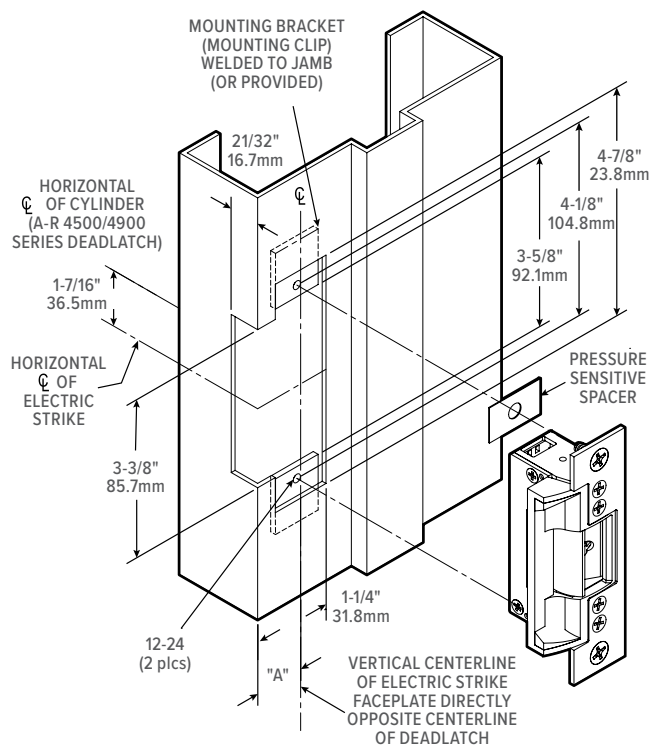
## 7140 Dimensions



## Jamb Preparation in Wood



## Jamb Preparation & Installation in Steel



## How to Order

**7140 Electric Strike:** Specify quantity and the following information. Order related products separately.

MODEL	VOLTAGE	CURRENT AND DUTY	FEATURES*	FINISH	LIP EXTENSIONS (DIM. A) (DOOR CENTERLINE TO JAMB EDGE)	
7140	-3	1	0	-628	-00	
	3 12 Volt	1 DC Continuous or Intermittent	0 Standard/Fail-Secure	313 Dark Bronze Anodized	00 1-1/16" or less	05 2"
	4 16 Volt	4 AC Intermittent	5 Fail-Safe	335 Black Anodized	01 1-1/2"	07 2-1/4"
	5 24 Volt			626 Satin Chrome	02 1-5/8"	09 2-1/2"
				628 Clear Anodized	03 1-3/4"	12 2-7/8"

\*Fail-secure can be field converted to fail-safe or vice-versa

# 7160, 7170

## Electric Strikes for Mortise or Cylindrical Locks

7160, 7170 Electric Strikes with 4-7/8" [123.8 mm] faceplates are designed for use with mortise or cylindrical type locksets with up to 3/4" [19.1 mm] latchbolt projection without deadbolt. **7160 Electric Strikes** are for use in aluminum applications. **7170 Electric Strikes** are for use in hollow metal or wood applications.

### Function

Remote electrical control of narrow stile aluminum doors (**7160**) or hollow metal/wood doors (**7170**) equipped with a mortise or cylindrical lockset with up to 3/4" [19.1 mm] latchbolt projection without deadbolt. Electrical actuation unlocks the keeper, releasing the latchbolt so the door may be opened without operating the latch itself. The electric strike must be positioned to accommodate offset mortise latches during installation. Please refer to installation instructions or contact factory for more information.

### Specifications

UL 1034 burglary-resistant listed

UL 294 (6th Edition) listed



7160



7170



LISTED



Grade 1



Burglary Listed



Electrified Product

### Features

#### Case

1" x 3-3/8" x 1-7/8" deep  
[25.4 mm x 85.7 mm x 47.6 mm].

#### Strike Opening

Bolt retaining keeper is stainless steel.  
Strike location must be centered on latchbolt.

**7160:** 3/4" x 1-7/16" x 5/8" deep  
[19.1 mm x 36.5 mm x 15.9 mm deep].

**7170:** 5/8" x 1-7/16" x 5/8" deep  
[15.9 mm x 36.5 mm x 15.9 mm deep].

#### Strike Lip

Basic strike has lip of proper length for 1-3/4" [44.5 mm] thick door that closes flush with jamb edge. Where door thickness or jamb shape differs from this standard relationship, lip extension kits are available, specified by last dash number.

#### Latchbolt Projection

3/4" [19.1 mm]

#### Faceplate

1-1/4" x 4-7/8" [31.8 mm x 123.8 mm].  
Available in a variety of architectural finishes.

**7160:** Flat with radius corners

**7170:** Flat with square corners

#### Standard Package

Individually boxed with mounting screws.

**7160** includes mounting clips, adhesive shims to accommodate jamb or stile extrusion thickness greater or less than nominal 1/8" [3.2 mm].

**7170** includes mounting clips and adhesive shims for use when welded tabs are omitted.

#### Shipping weight

2 lbs [0.91 kg].

### Electrical

#### Voltage

Available in 12, 16, or 24 Volt AC and DC. DC continuous units are silent, AC intermittent units "buzz" on operation.

#### Current Draw

0.33A at 12 VDC	1.42A at 12 VAC
0.22A at 16 VDC	0.63A at 16 VAC
0.17A at 24 VDC	0.74A at 24 VAC

#### Fail Safe | Fail Secure

Field selectable at time of installation. However, AC intermittent solenoid must not be used continuously in either.

### Options

- Available with two Form 'C' monitoring switches to indicate when the latchbolt is engaged in the strike and whether the strike jaw is blocked.
- Lip extension kits for various dimensions of door centerline to jamb edge.
- **Modular Packaging**  
Match one strike body kit with one faceplate kit to make a complete electric strike. Faceplate kits contain all hardware to mount electric strike. Please contact factory or sales representative for details.

#### Product Note

All 3/4" throw latches require 1/8" minimum door gap. Horizontal center line of strike must match line of mortise latchbolt.

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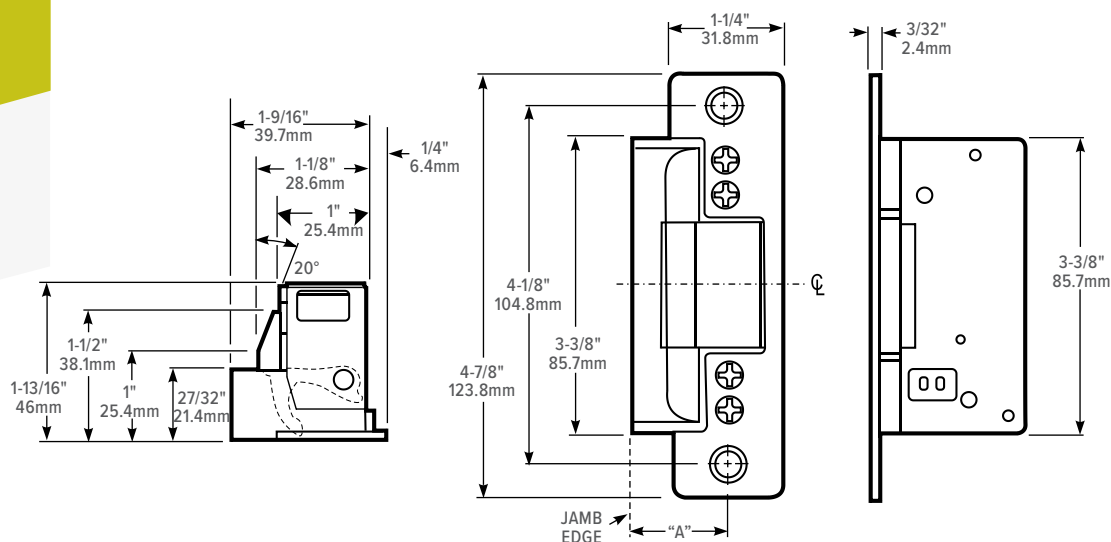
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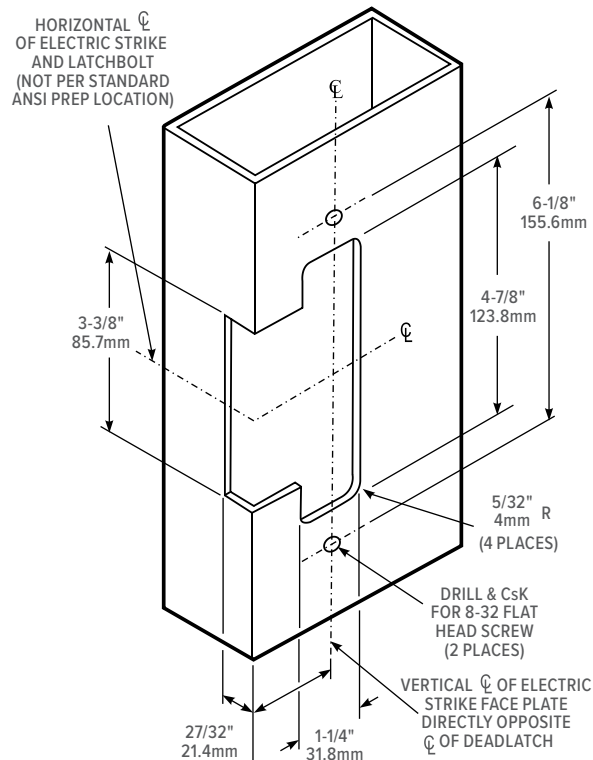
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Rite**  
**ASSA ABLOY**

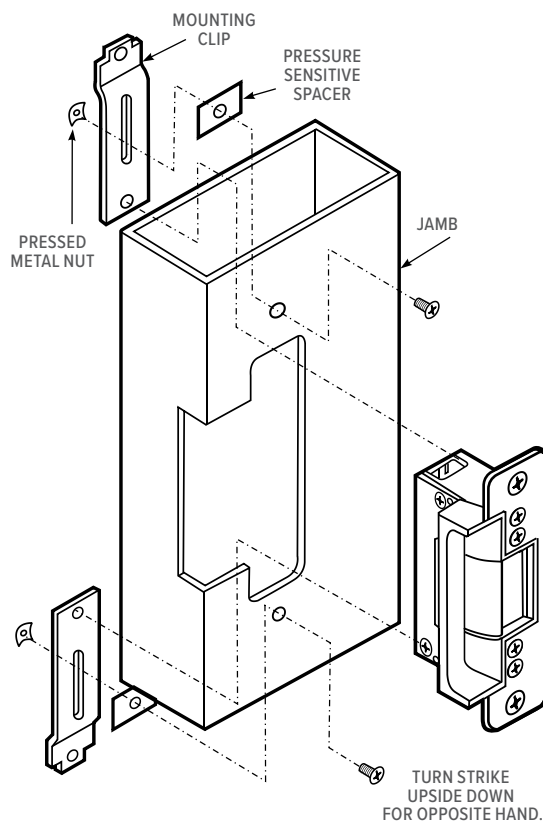
# 7160 Dimensions



## Jamb Preparation



## Installation

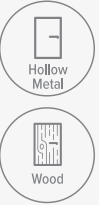


## How to Order

**7160, 7170 Electric Strikes:** Specify quantity and the following information. Order related products separately.

MODEL	APPLICATION	VOLTAGE	CURRENT AND DUTY	FEATURES*	FINISH	LIP EXTENSIONS (DIM. A) (DOOR CENTERLINE TO JAMB EDGE)	
71	60	-3	1	0	-628	-00	
	60 Aluminum Jamb	3 12 Volt	1 DC Continuous or Intermittent	0 Standard/Fail-Secure	313 Dark Bronze Anodized	00 1-1/16" or less	05 2"
	70 Hollow Metal, Wood	4 16 Volt	4 AC Intermittent	5 Fail-Safe	335 Black Anodized	01 1-1/2"	07 2-1/4"
		5 24 Volt		7 Monitored/ Fail-Safe	626 Satin Chrome	02 1-5/8"	09 2-1/2"
				9 Monitored/ Fail-Secure	628 Clear Anodized	03 1-3/4"	12 2-7/8"

\*Fail-secure can be field converted to fail-safe or vice-versa



**Steel**

MOUNTING BRACKET  
(MOUNTING CLIP) WELDED TO  
JAMB (OR PROVIDED)

27/32"  
21.4mm

HORIZONTAL  
C OF  
ELECTRIC  
STRIKE

4-7/8"  
123.8mm

4-1/8"  
104.8mm

3-5/8"  
92.1mm

PRESSURE  
SENSITIVE  
SPACER

3-3/8"  
85.7mm

12-24  
(2 plcs)

1-1/4"  
31.5mm

VERTICAL CENTERLINE OF  
ELECTRIC STRIKE  
FACEPLATE DIRECTLY  
OPPOSITE CENTERLINE OF  
DEADLATCH

"A"

OPTIONS & ACCESSORIES	POWER
Lip Extension Kits, Modular Kits, Monitor Kits	4603 Rectifier, 4605/4606 Transformer, Piezo Horn audible indicator, PS-1, ElectroLynx connector







# 7200 Series

## Fire-Rated Electric Strikes

**7240 Fire-Rated Electric Strikes** with 4-7/8" [123.8 mm] faceplates are designed for cylindrical locksets with up to 5/8" [15.9 mm] latchbolt projection.

**7270 Fire-Rated Electric Strikes** with 4-7/8" [123.8 mm] faceplates are designed for mortise or cylindrical locksets with up to 3/4" [19.1 mm] latchbolt projection without a deadbolt.

Both models are for use in hollow metal door jambs.

### Function

Remote electrical control of hollow metal doors equipped with cylindrical locksets with up to 5/8" [15.9 mm] latchbolt projection (**7240**) or mortise or cylindrical lockset with up to 3/4" [19.1 mm] latchbolt projection (**7270**). Electrical actuation unlocks the keeper, releasing the latchbolt so the door may be opened without operating the latch itself. Fire-rated in fail secure mode only.

### Specifications

UL 10C fire rated, 3 hour single door (fail secure only)

CAN/ULC-S104 fire door conformant



LISTED



### Features

#### Case

**7240:** 1" x 3-3/8" x 1-5/8" deep  
[25.4 mm x 85.7 mm x 41.3 mm deep]

**7270:** 1" x 3-3/8" x 1-7/8" deep  
[25.4 mm x 85.7 mm x 47.6 mm deep]

#### Strike Opening

Bolt retaining keeper and strike lip are stainless steel. Strike accepts bolts from a variety of locksets.

**7240:** 5/8" x 1-7/16" x 9/16" deep  
[15.9 mm x 36.5 mm x 14.3 mm deep]

**7270:** 3/4" x 1-7/16" x 5/8" deep  
[19.1 mm x 36.5 mm x 15.9 mm deep]

#### Strike Lip

Basic strike has lip of proper length for 1-3/4" [44.5 mm] thick door that closes flush with jamb edge.

#### Faceplate

Measures 1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]; flat with square corners

#### Latchbolt Projection

**7240:** 5/8" [15.9 mm]

**7270:** 3/4" [19.1 mm]

#### Standard Package

Individually boxed with mounting screws. Includes mounting clips and adhesive shims for use where welded tabs are omitted.

#### Shipping Weight

2 lbs [0.91 kg].

### Electrical

#### Voltage

Available in 12 or 24 Volt AC and DC. DC continuous units are silent, AC intermittent units "buzz" on operation.

#### Current Draw

0.33A at 12 VDC      1.42A at 12 VAC

0.17A at 24 VDC      0.74A at 24 VAC

#### Fail Safe | Fail Secure

Assembled for fail-secure (locked when unpowered) operation.

### Options

- Available with two Form 'C' monitoring switches to indicate when the latchbolt is engaged in the strike and whether the strike jaw is blocked.
- Available with lip extension kit. Specify when ordering if required.

#### Product Note

All 3/4" throw latches require 1/8" minimum door gap. Horizontal center line of strike must match line of mortise latchbolt.

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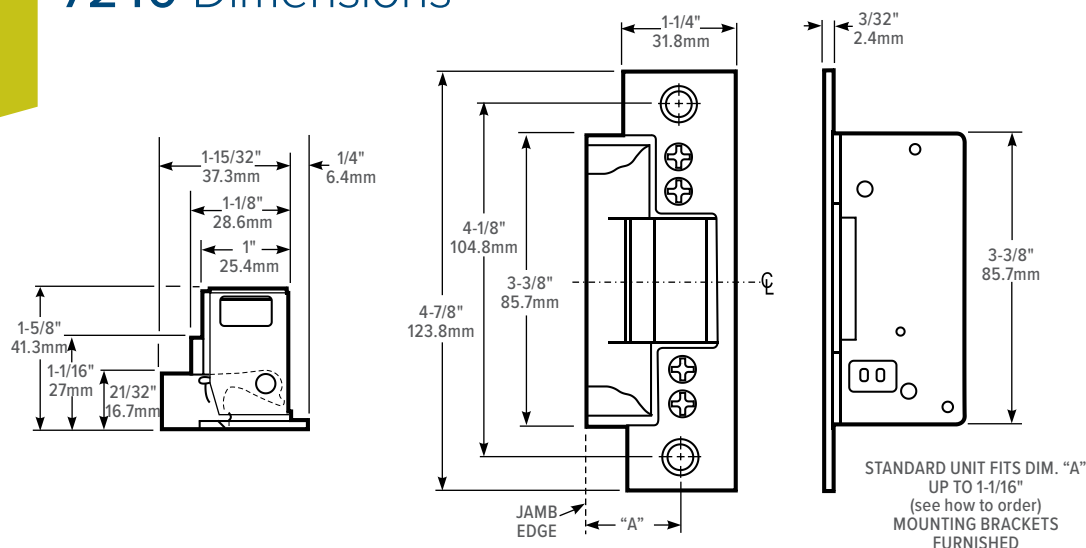
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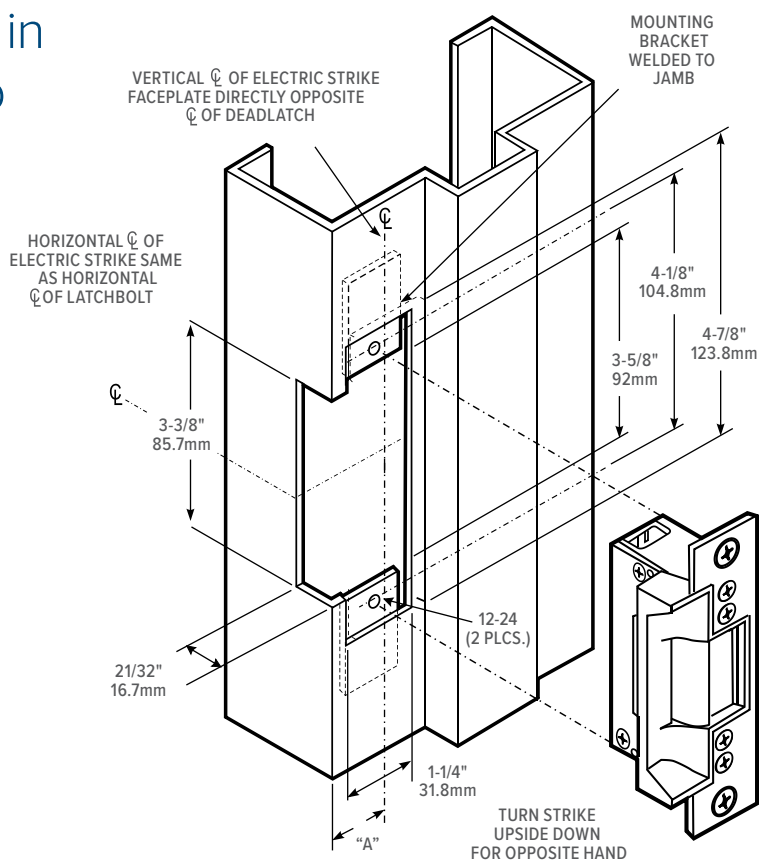
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ASSA ABLOY

## 7240 Dimensions



## Installation in Steel Jamb



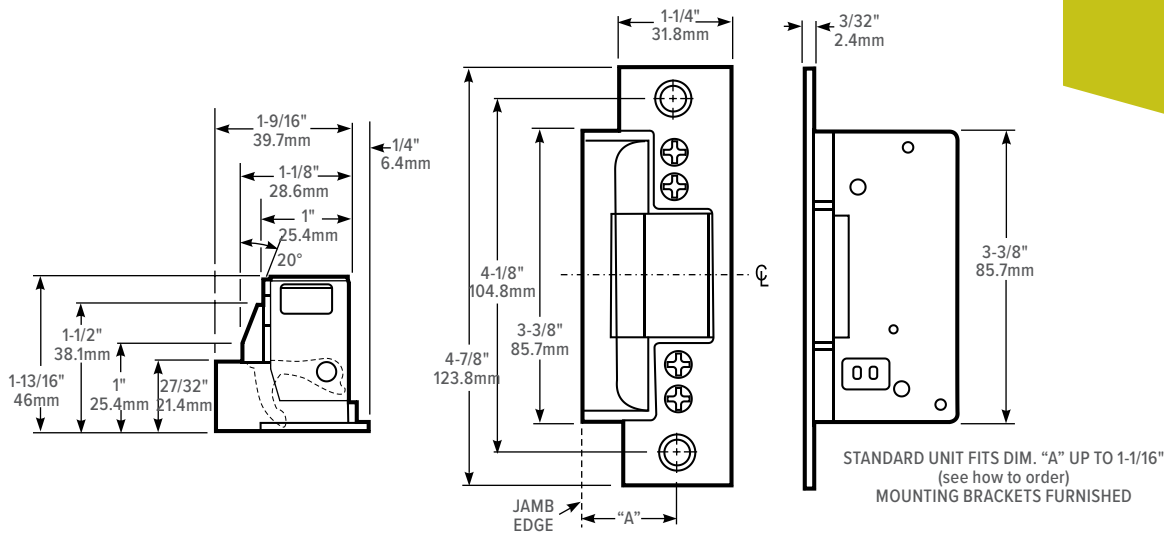
## How to Order

**7240, 7270 Electric Strikes:** Specify quantity and the following information. Order related products separately.

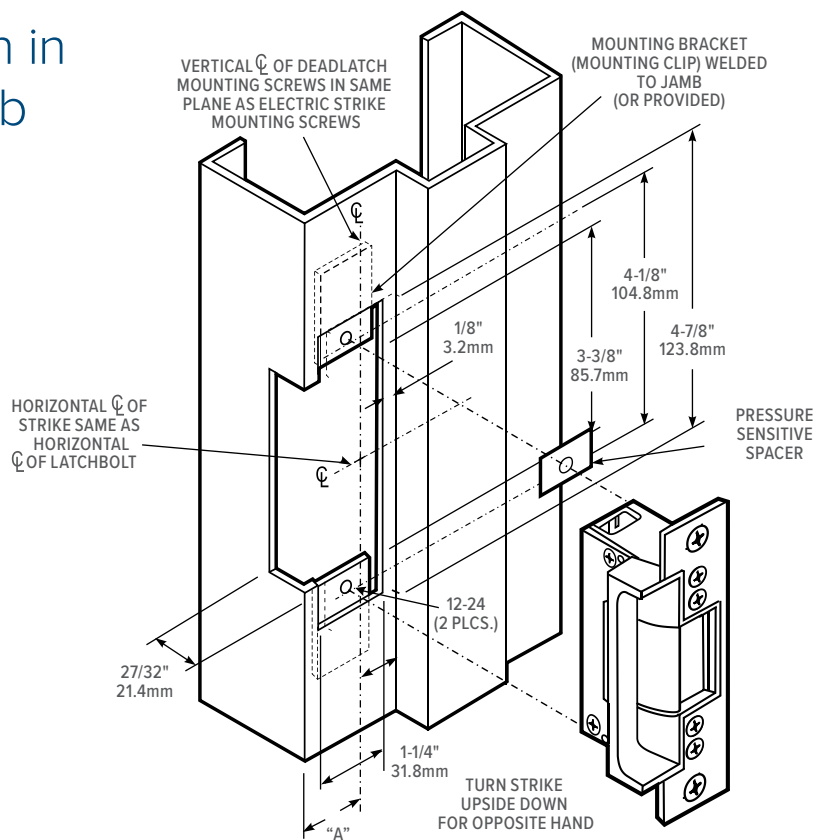
MODEL	APPLICATION	VOLTAGE	CURRENT AND DUTY	FEATURES*	FINISH	LIP EXTENSIONS (DIM. A) (DOOR CENTERLINE TO JAMB EDGE FOR INTERIOR FRAMES)
72	40	-3	1	0	-630	-50
	40 Cylindrical Latches	3 12 Volt	1 DC Continuous or Intermittent	0 Fail-Secure	630 Satin Stainless	00 1-1/16" or less
	70 Mortise Latches	5 24 Volt	4 AC Intermittent	9 Monitored/ Fail-Secure		50 1-3/8"

\*Not available Fail-Safe

# 7270 Dimensions



## Installation in Steel Jamb



## Related Products

When purchasing this product, please consider the following related products, available separately:

OPTIONS & ACCESSORIES	POWER
Lip Extension Kits	4603 Rectifier, 4605/4606 Transformer, Piezo Horn audible indicator, PS-1, ElectroLynx connector





# UltraLine® 7400 Series

## Electric Strikes for Adams Rite Deadlatches, Cylindrical Locks

Designed for use with Adams Rite deadlatches or cylindrical locksets with 1/2" [12.7 mm] to 5/8" [15.9 mm] latchbolt projection. For use in aluminum, hollow metal, or wood applications.

Open electrically under 25 lbs [11.3 kg] of preload. Preload is pressure exerted on doors by air conditioning systems, warping or misaligned hardware which can disable common electric strikes.

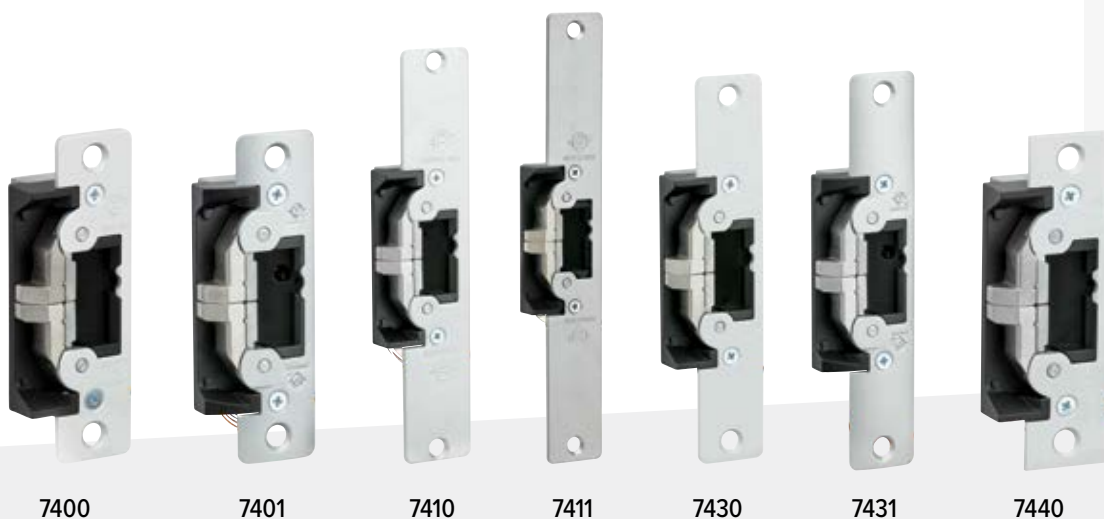
### Function

This non-handed strike features an ultra-compact design and adjustable stainless steel keepers with over 1,500 lbs [680.4 kg] of holding force in fail secure mode. The strike releases electrically with up to 25 lbs of door preload. Single solenoid operates on 12/16/24 VDC power.

Remote electrical control of narrow stile aluminum doors equipped with an Adams Rite 4500, 4700 (discontinued), or 4900 Deadlatch or cylindrical lockset with 1/2" [12.7 mm] to 5/8" [15.9 mm] latchbolt projection. Electrical actuation unlocks the keeper, releasing the latchbolt so the door may be opened without operating the latch itself.

### Specifications

ANSI/BHMA A156.31 Electric Strikes and Frame Mounted Actuators, Grade 1



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[adamsrite.com](http://adamsrite.com)

10027 S. 51st Street, Ste 102, Phoenix, Arizona 85044

## Features

### Case

1-13/32" x 3-3/8" x 1-1/16" deep  
[35.7 mm x 85.7 mm x 27 mm deep]

### Strike Lip

Basic 7400 strike has lip of proper length for 1-3/4" [44.5 mm] thick door that closes flush with jamb edge. Where door thickness or jamb shape differs from this standard relationship, lip extension kits are available.

Lip extension kits not available on 7401, 7431

### Strike Opening

5/8" adjustable x 1-7/16" x 1/2" deep  
[15.9 mm adjustable x 36.5 mm x 12.7 mm deep]. Bolt retaining keeper is stainless steel. Strike accepts bolt of Adams Rite 4500, 4700 (discontinued), or 4900 Deadlatch or cylindrical locksets.

### Latchbolt Projection

1/2" to 5/8" [12.7 mm to 15.9 mm]

### Preload

7400 Series Electric Strikes open electrically under 25 lbs [11.3 kg] of preload. Preload is pressure exerted on doors by air conditioning systems, warping or misaligned hardware which can disable common electric strikes.

Using jaw inserts of various sizes, the Ultraline 7400 Series electric strikes are adjustable to compensate for door and frame related preload and security problems.

### Faceplate

Available in a variety of architectural finishes.

7400	1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]	Flat with radius corners
7401	1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]	Radiused to match nose on inactive leaf in a pair of narrow stile doors.
7410	1-7/16" x 7-15/16" [36.5 mm x 201.6 mm]	Flat with radius corners
7411	1-7/16" x 10-1/4" [36.5 mm x 260.4 mm]	Flat with radius corners
7430	1-1/4" x 6-7/8" [31.8 mm x 174.6 mm]	Flat with radius corners
7431	1-1/4" x 6-7/8" [31.8 mm x 174.6 mm]	Radiused to match nose on inactive leaf in a pair of narrow stile doors
7440	1-1/4" x 4-7/8" [31.8 mm x 123.8 mm]	Flat with square corners

**7430/7431:** Large 6-7/8" faceplate is designed to cover strike opening when converting from an MS® pivoted-bolt deadlock to deadlatch.

### Standard Package

Individually boxed with mounting screws, mounting tabs, adhesive shims to accommodate jamb or stile extrusion thickness greater or less than nominal 1/8" [3.2 mm], an adjustable keeper shim pack and two plug-in voltage adapters for 12/24 VDC.

### Shipping Weight

2 lbs [0.91 kg].

## Electrical

### Voltage

Field selectable to match power source of 12/24 VDC. VA7400-16VDC voltage adapter required when using 16 VDC power, available separately. Equipped with a quick connect plug-in type connector.

### Current Draw

.44A at 12 VDC

.46A at 16 VDC\*

.23A at 24 VDC

\*Requires 16 DC adapter (P/N VA7400-16VDC)

### Fail Safe | Fail Secure

Field selectable fail safe/fail secure

## Options

- Available with two Form 'C' monitoring switches to indicate when the latchbolt is engaged in the strike jaws and a locked/unlocked solenoid status.
- Lip extension kits for various dimensions of door centerline to jamb edge; for flat faceplates only.
- Modular Packaging**  
Match one strike body kit with one faceplate kit to make a complete electric strike. Faceplate kits contain all hardware to mount electric strike. Please contact factory or sales representative for details.
- ELX-ElectroLynx® Adapter**  
Connects Adams Rite electrified products to ElectroLynx system.
- 16 VDC Adapter**  
VA7400-16VDC required when using 16 VDC Power
- Wood Door Cover**  
WDC7400 for use when mounting the 7400 Series Electric Strike on the inactive leaf of a pair of doors. The cover simplifies the mortise prep.

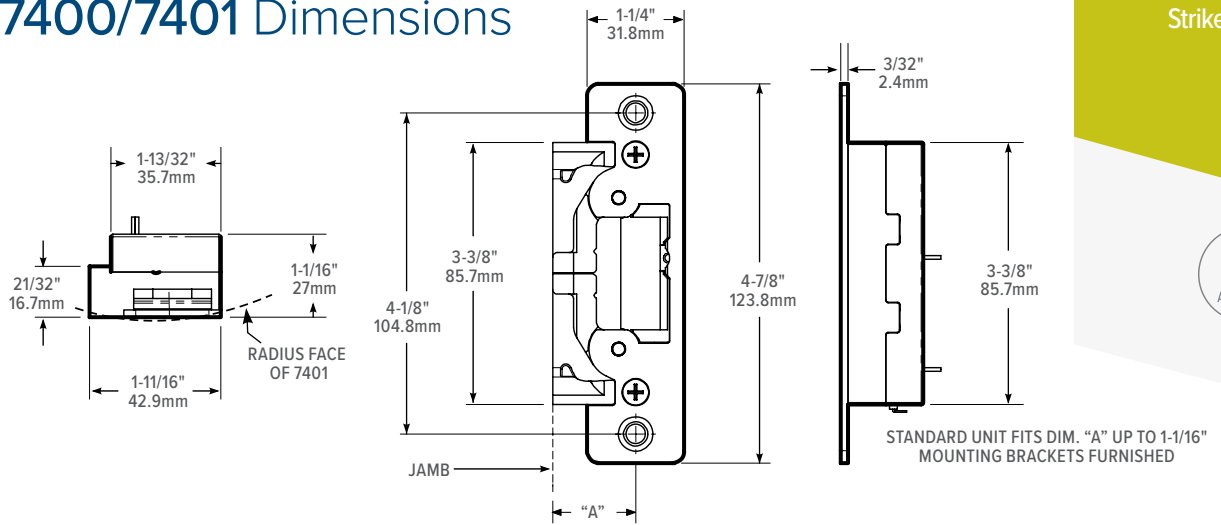
## Related Products

### 7400/7401, 7410/7411, 7430/7431, 7440

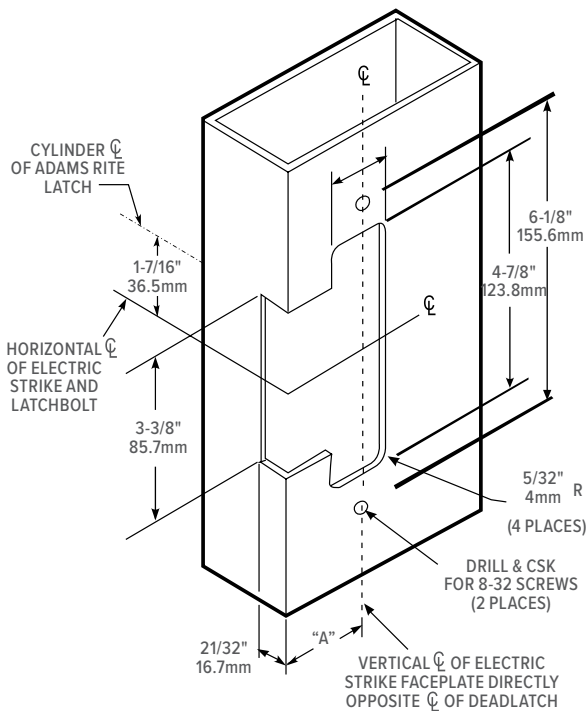
When purchasing this product, please consider the following related products, available separately:

OPTIONS & ACCESSORIES	POWER	DEADLATCHES	EXIT DEVICES
Modular Kits, Lip Extension Kits, WDC7400-Wood Door Cover	4603 Rectifier, 4605/4606 Transformer, Piezo Horn audible indicator, PS-1, ElectroLynx connector, VA7400 Voltage Adapter	4510, 4530, 4900, 4920AN Series Deadlatches	8300, 8400 Mortise Exit Device

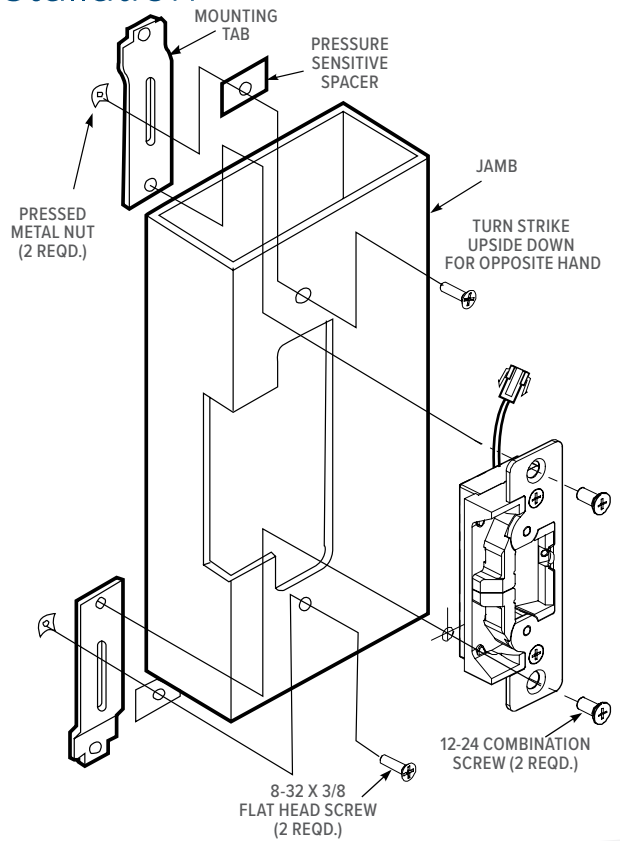
## 7400/7401 Dimensions



## Jamb Preparation



## Installation



## How to Order

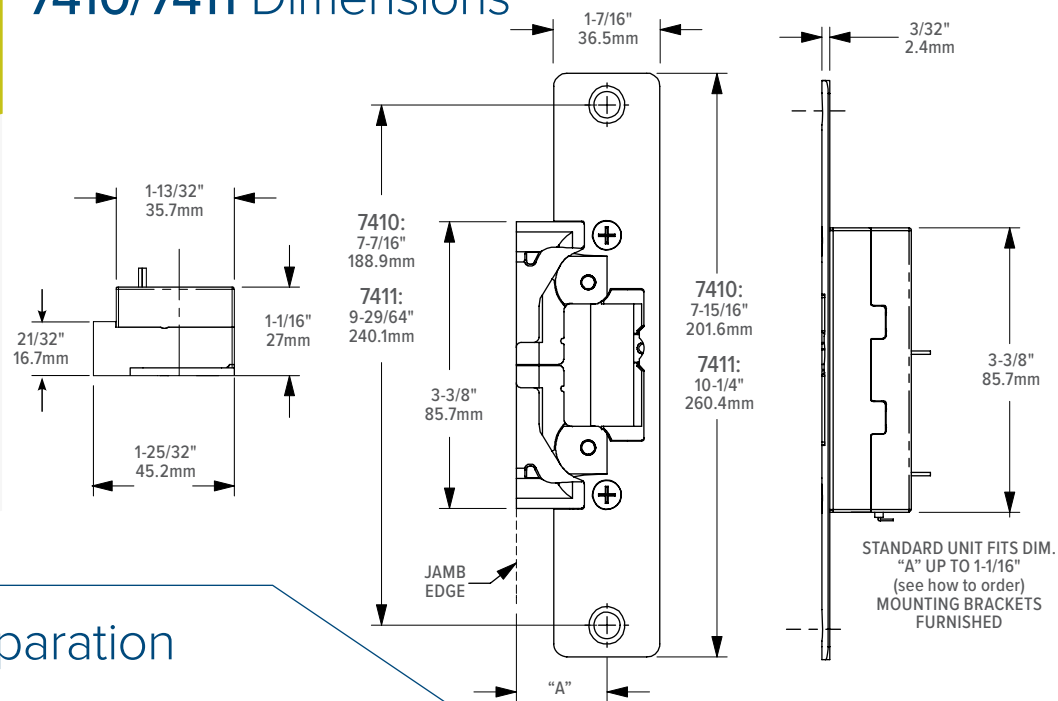
**7400/7401 Electric Strikes:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE SHAPE	FEATURES*	FINISH		
740	O	M	628		628
	0 Flat	- None	7400 ONLY		7401 ONLY
	1 Radius	M Monitored	313 Dark Bronze Anodized	626 Satin Chrome	119 To match 335 Black Anodized
		A Modular Pack – Body Kit	335 Black Anodized	628 Clear Anodized	121 To match 313 Dark Bronze Anodized
			605 Bright Brass	630 Satin Stainless	130 To match 628 Clear Anodized
			606 Satin Brass		

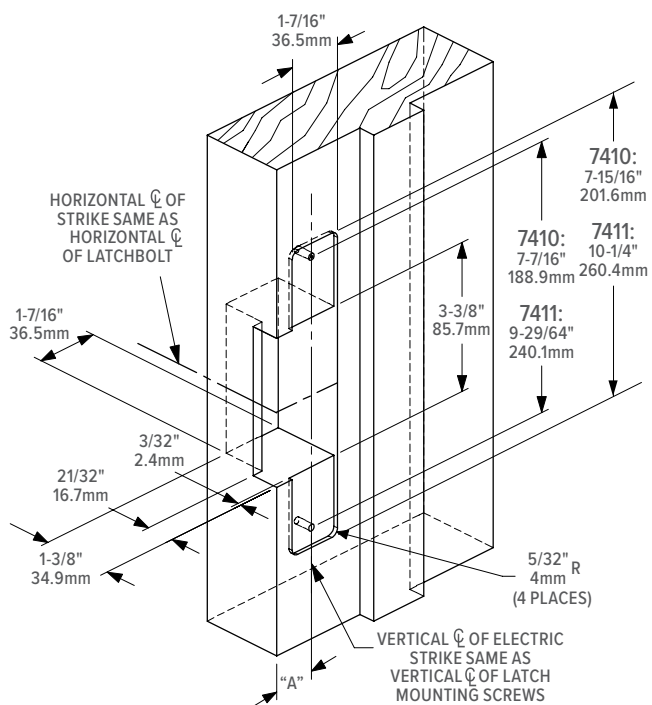
\*Fail-secure can be field converted to fail-safe or vice-versa.



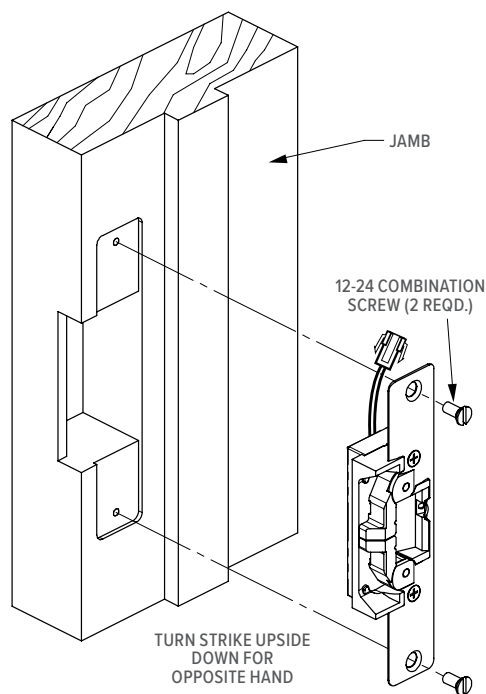
## 7410/7411 Dimensions



## Jamb Preparation



## Installation



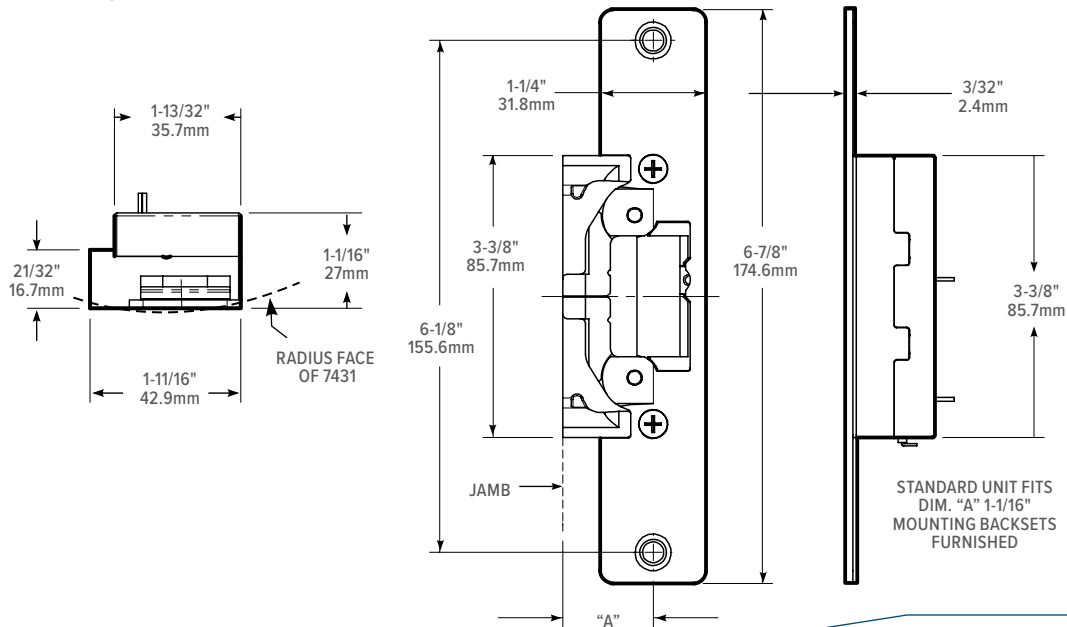
## How to Order

**7410/7411 Electric Strikes:** Specify quantity and the following information. Order related products separately.

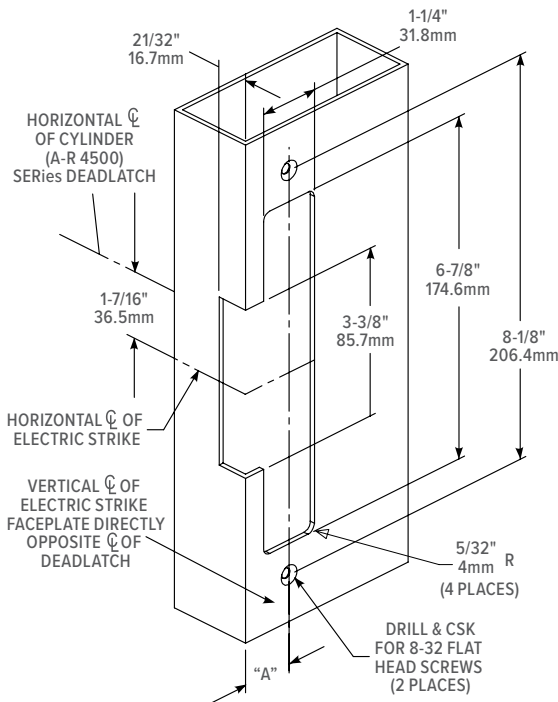
MODEL	FACEPLATE LENGTH	FEATURES*	FINISH
741	0	-	628
	0 7-15/16"	- None	313 Dark Bronze Anodized
	1 10-1/4"	M Monitored	335 Black Anodized
			628 Clear Anodized
			630 Satin Stainless

\*Fail-secure can be field converted to fail-safe or vice-versa.

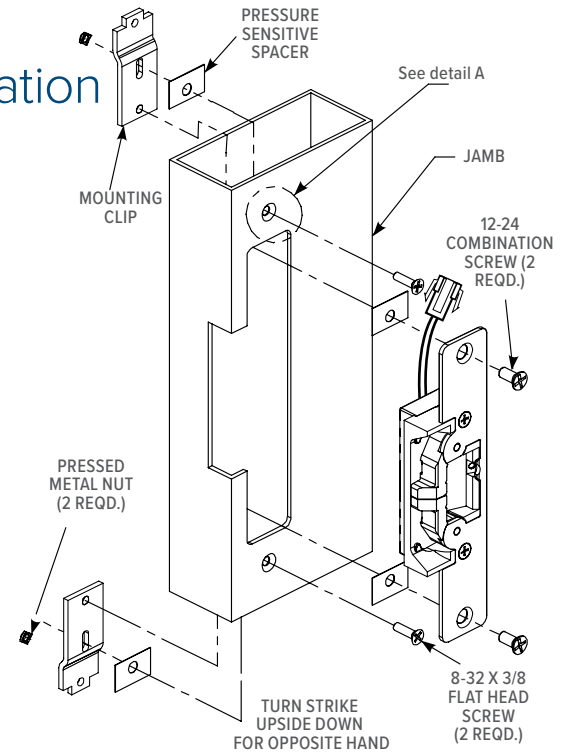
## 7430/7431 Dimensions



## Jamb Preparation



## Installation



## How to Order

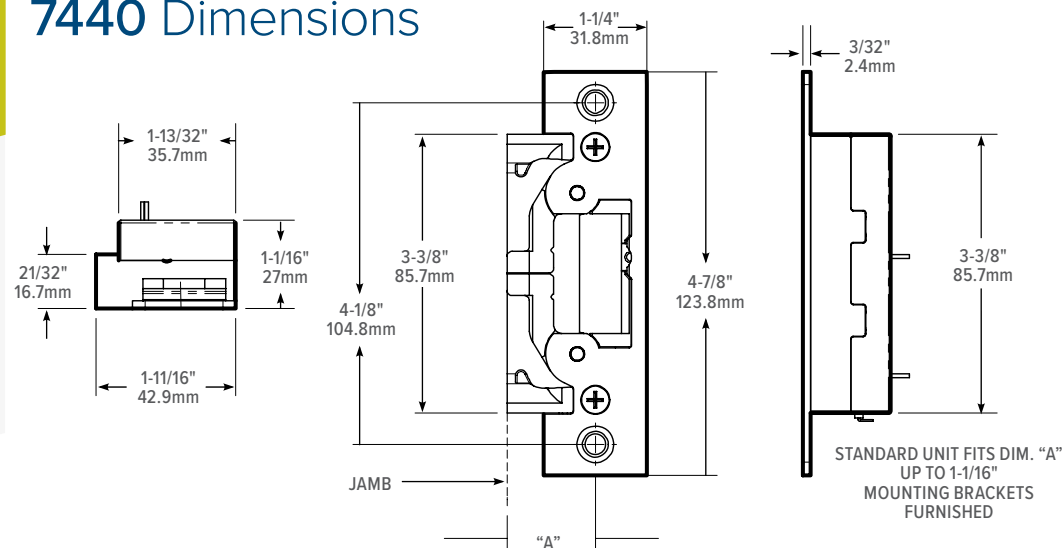
**7430/7431 Electric Strikes:** Specify quantity and the following information. Order related products separately.

MODEL	FACEPLATE SHAPE	FEATURES*	FINISH	
743	0	M	628	
	0 Flat	- None	7430 ONLY	7431 ONLY
	1 Radius	M Monitored	313 Dark Bronze Anodized	119 To match 313 Dark Bronze Anodized
			335 Black Anodized	121 To match 335 Black Anodized
			628 Clear Anodized	119 To match 628 Clear Anodized

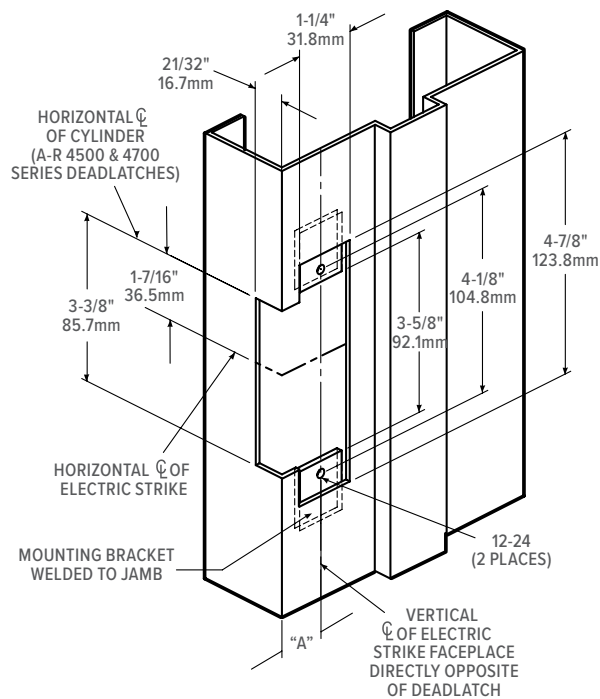
\*Fail-secure can be field converted to fail-safe or vice-versa.

All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

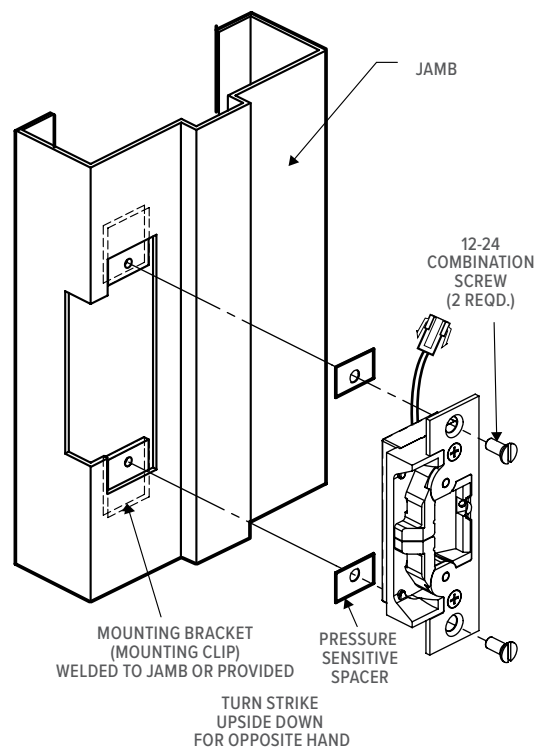
## 7440 Dimensions



## Jamb Preparation



## Installation



## How to Order

**7440 Electric Strike:** Specify quantity and the following information. Order related products separately.

MODEL	FEATURES*	FINISH
7440	M	628
	- None	313 Dark Bronze Anodized
	M Monitored	335 Black Anodized
		605 Bright Brass
		606 Satin Brass
		628 Clear Anodized
		629 Bright Stainless
		630 Satin Stainless

\*Fail-secure can be field converted to fail-safe or vice-versa.

# UltraLine® 74R1, 74R2

## for Rim Exit Devices with Pullman Type Latchbolts

**74R1 Electric Strike** is designed for rim exit devices with 3/4" [19.1 mm] Pullman latchbolts. For use in aluminum, hollow metal or wood applications.

**74R2 Electric Strike** is designed for narrow stile rim exit devices with 1/2" [12.7 mm] Pullman latchbolts. Designed for use in aluminum applications.

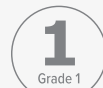
Open electrically under 25 lbs [11.3 kg] of preload. Preload is pressure exerted on doors by air conditioning systems, warping or misaligned hardware which can disable common electric strikes.

## Function

These non-handed strikes feature an ultra-compact design and adjustable stainless steel keepers with over 1,500 lbs [680.4 kg] of holding force in fail secure mode. The strikes release electrically with up to 25 lbs of door preload. Single solenoid operates on 12/16/24 VDC power. Provides electrical remote control, allowing door to open without actuation of the exit device.

## Specifications

ANSI/BHMA A156.31 Electric Strikes and Frame Mounted Actuators, Grade 1



## Features

### Case

**74R1:** 1-13/32" x 3-3/8" x 1-1/16" deep  
[35.7 mm x 85.7 mm x 27 mm deep]

**74R2:** 1-13/32" x 3-3/8" x 1-1/8" deep  
[35.7 mm x 85.7 mm x 28.6 mm deep]

### Strike Opening

Bolt retaining keeper is stainless steel.

**74R1:** 5/8" x 1-7/16" x 9/16" deep  
[15.9 mm x 36.5 mm x 14.3 mm deep].  
Strike accepts Pullman latch of exit devices without deadlocking bolts.

**74R2:** 5/8" x 1-7/16" x 1/2" deep  
[15.9 mm x 36.5 mm x 12.7 mm deep].

### Faceplate

Not separate

**74R1:** 1-3/4" x 9 x 11/16"  
[44.5 mm x 228.6 mm x 17.5 mm]

**74R2:** 1-5/8" x 9 x 1/2"  
[41.3 mm x 228.6 mm x 12.7 mm]

### Latchbolt Projection

**74R1:** 3/4" [19.1 mm]

**74R2:** 1/2" [12.7 mm]

### Standard Package

Individually boxed with mounting plate shims, mounting screws, and installation instructions.

### Shipping Weight

2 lbs [0.91 kg].

## Electrical

### Voltage

Field selectable to match power source of 12/24 VDC. VA7400-16VDC voltage adapter required when using 16 VDC power, available separately. Equipped with a quick connect plug-in type connector.

### Current Draw

.44A at 12 VDC

.46A at 16 VDC\*

.23A at 24 VDC

\*Requires 16 DC adapter (P/N VA7400-16VDC)

### Fail Safe | Fail Secure

Field selectable fail safe/fail secure

## Options

- Available with two Form 'C' monitoring switches to indicate when the latchbolt is engaged in the strike jaws and a locked/unlocked solenoid status.
- ELX-ElectroLynx® Adapter**  
Connects Adams Rite electrified products to ElectroLynx system
- 16 VDC Adapter**  
VA7400-16VDC required when using 16 VDC power

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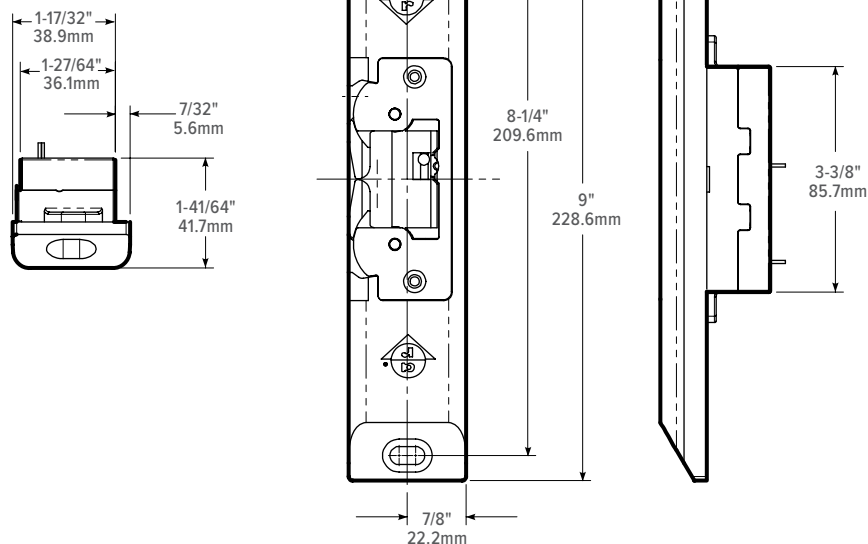
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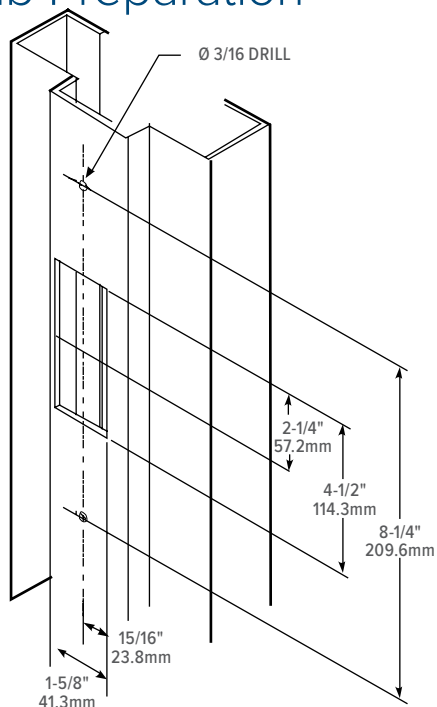
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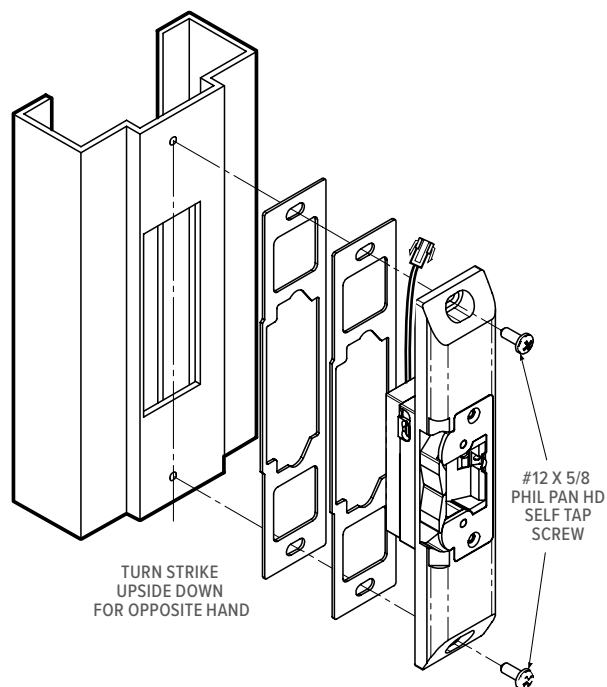
## 74R1 Dimensions



## Jamb Preparation



## Installation



## How to Order &amp; Related Products

**74R1 Electric Strike:** Specify quantity and the following information. Order related products separately.

MODEL	FEATURES*	FINISH
74R1	M	-130
	- None	119 To match 335 Black Anodized
	M Monitored	121 To match 313 Dark Bronze Anodized
		130 To match 628 Clear Anodized

## RELATED

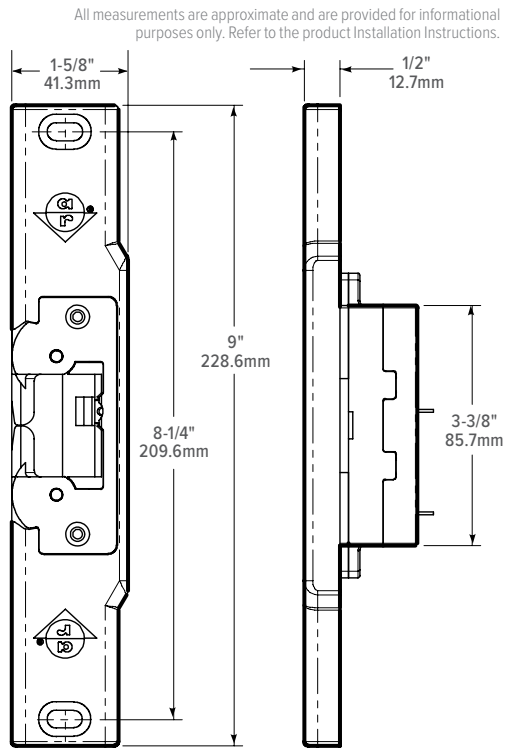
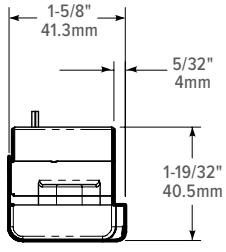
When purchasing this product, please consider the following related products, available separately:

POWER	EXIT DEVICES
4603 Rectifier, 4605/4606 Transformer, Piezo Horn audible indicator, PS-1, ElectroLynx connector, VA7400-16VDC Adapter	EX89 Pullman Rim Exit Device

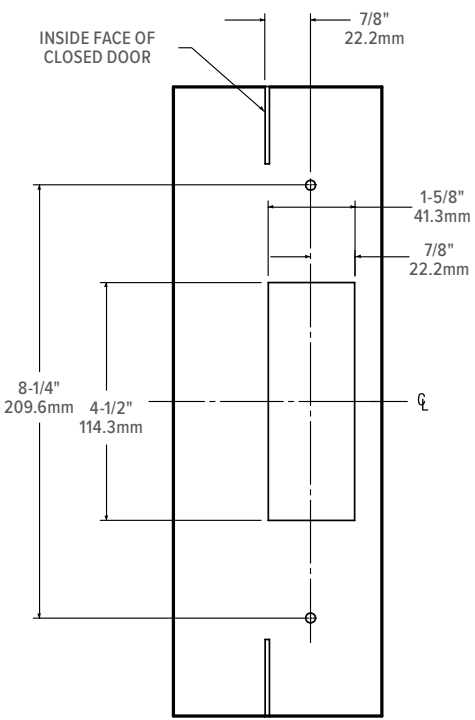
\*Fail-secure can be field converted to fail-safe or vice-versa.



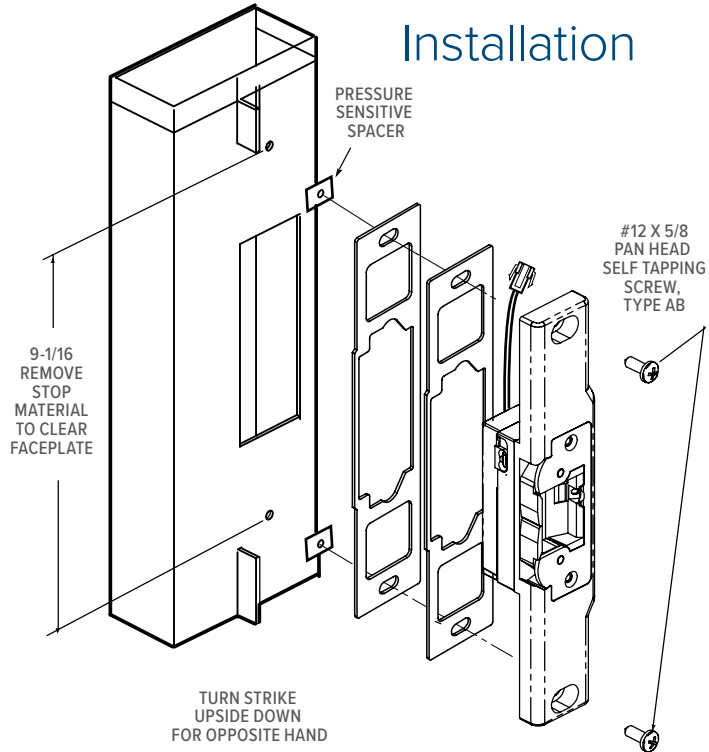
# 74R2 Dimensions



## Jamb Preparation



## Installation



## How to Order & Related Products

**74R2 Electric Strike:** Specify quantity and the following information. Order related products separately.

MODEL	FINISH
74R2	-130
	119 To match 335 Black Anodized
	121 To match 313 Dark Bronze Anodized
	130 To match 628 Clear Anodized

\*Fail-secure can be field converted to fail-safe or vice-versa.

### RELATED

When purchasing this product, please consider thefollowing related products, available separately:

POWER
4603 Rectifier, 4605/4606 Transformer, Piezo Horn audible indicator, PS-1, ElectroLynx connector, VA7400-16VDC Adapter



# Your Solution for Preload

With a feature set unmatched in the industry, the UltraLine premium electric strikes from Adams Rite address preload and more.

The Ultraline 7400 Series features an ultra-compact design and an adjustable stainless steel split-jaw with 1500 lbs. of holding force in fail-secure mode, and will release electrically with up to 25 lbs. of door preload. Using jaw inserts of various sizes, the 7400 Series Electric Strikes are adjustable to compensate for door and frame related preload and security problems.

Visit [adamsrite.com](http://adamsrite.com) to download a 7400 Series Electric Strikes preload brochure.



# Options & Accessories

## Lip Extension Kits

### 7100 Series Electric Strikes

Lip extensions are for center hung doors, thick doors, or other conditions that vary from the "standard" 1-3/4" thick door that closes flush (or near flush) with the jamb face. Specified with electric strike by the last dash number which varies the door centerline to jamb edge dimension in 1/8" increments. For existing 7100 Series Electric Strikes, a thin metal membrane in the standard lip can be drilled or punched out and the lip extension can be added in the field. The dash number for lip extension is the same as door centerline to jamb edge dash number on complete strike.

### 7100 Lip Extension

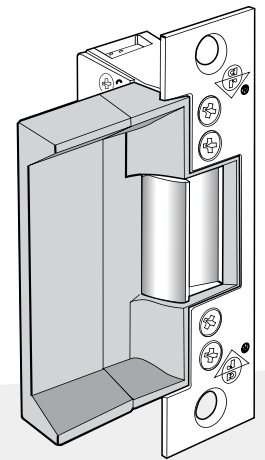
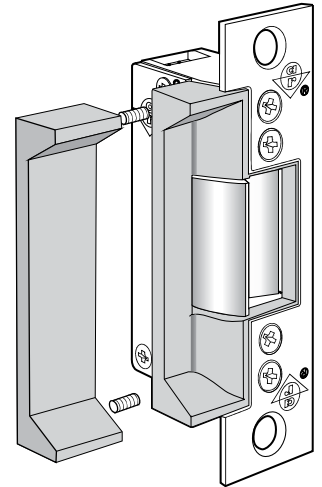
LIP EXTENSION PART NUMBER	APPLICABLE ELECTRIC STRIKES
91-0171-01 through -13	7100, 7110, 7111, 7130, 7140
91-0172-01 through -13	7160, 7170

### 7100 Lip Extension Dimensions

DASH PART NUMBER	DIMENSION 'A' – DOOR CENTERLINE TO JAMB EDGE	DASH PART NUMBER	DIMENSION 'A' – DOOR CENTERLINE TO JAMB EDGE
-00	1-1/16"	-07	2-1/4"
-01	1-1/2"	-08	2-3/8"
-02	1-5/8"	-09	2-1/2"
-03	1-3/4"	-10	2-5/8"
-04	1-7/8"	-11	2-3/4"
-05	2"	-12	2-7/8"
-06	2-1/8"	-13	3"

1-1/16" or less does not require a lip extension.

Lip extensions for fire-rated 7200 Series Electric Strikes must be factory installed.



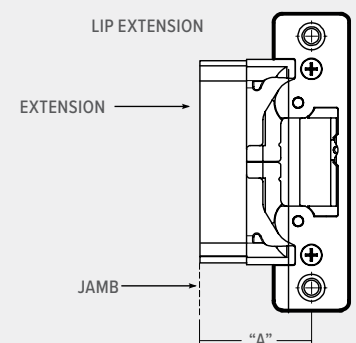
### Ultraline 7400 Series Electric Strikes

Lip extensions are for center hung doors, thick doors, or other conditions that vary from the "standard" 1-3/4" thick door that closes flush (or near flush) with the jamb face. Lip extension kits are available in 1/8" increments, for flat faceplates only.

### 7400 Lip Extension

PART NUMBER	DIMENSION 'A' – DOOR CENTERLINE TO JAMB EDGE	PART NUMBER	DIMENSION 'A' – DOOR CENTERLINE TO JAMB EDGE
LEK7400-50	1-3/8"	LEK7400-07	2-1/4"
LEK7400-01	1-1/2"	LEK7400-08	2-3/8"
LEK7400-02	1-1/16"	LEK7400-09	2-1/2"
LEK7400-03	1-3/4"	LEK7400-10	2-5/8"
LEK7400-04	1-7/8"	LEK7400-11	2-3/4"
LEK7400-05	2"	LEK7400-12	2-7/8"
LEK7400-06	2-1/8"	LEK7400-13	3"

1-1/16" or less does not require a lip extension



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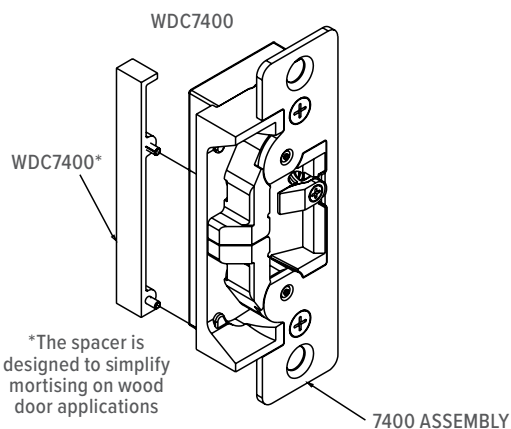
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## WDC7400 Wood Door Application

For use with Ultraline 7400 Electric Strikes only, this cover plate is designed to simplify mortising of wood door pairs.

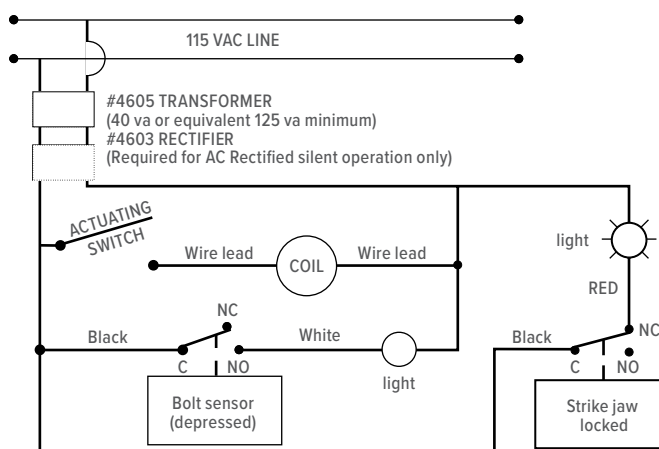


## Monitor Switches

If a visual or other signal is required to tell an operator what the electric strike is doing, a "monitoring" strike to switch that signal on and off is required.

This feature utilizes two sensor switches: one is activated by the latchbolt's penetration of the strike and the other by the mechanism that blocks the strike's release.

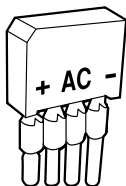
These switches can also be used to interconnect two strikes in "mantrap" or interlock situations, such as elevator doors. In these cases, power to the solenoid of each strike is controlled by the switch(es) of the other so one will not unlock unless the other is locked. Each switch has both normally open and normally closed leads to they can be wired to either make or break a circuit.



## Power

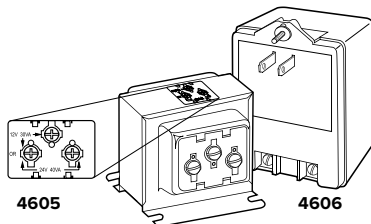
### 4603 Rectifier

Converts low voltage AC current to DC of same voltage. Installs in low voltage line between transformer and strike. Full wave bridge type. Rated 2 amps (200 PIV).



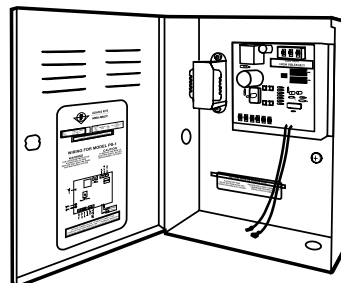
### Transformers

- **4605** Converts 120 VAC to 12/24 VAC. Rated 40 Volt-amp output assures plenty of power for strike release.
- **4606** Converts 120 VAC current to 24 VAC. Plugs into standard wall outlet.



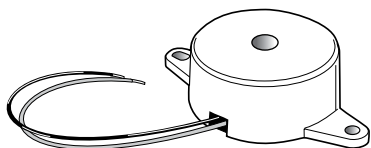
### PS-1 Power Supply

Provides filtered and regulated voltage output to power electric strikes, magnetic locks, or other access control devices. Output is selectable in the field for 12 or 24 VDC. Charging circuit is built-in for battery backup power with 12 or 24 VDC operation. LED on circuit board indicates power input.



### 29-0218 Piezo Horn

Provides for audible indication of when a DC strike is energized. Operates with 12 VDC, 16 VDC, or 24 VDC strikes.



# 1000

## Series Turns

The 1000 Series Turns are designed to operate the Adams Rite MS1847 Deadlock and the 5017 Wood Door Deadlock.

### Function

1000 Turns are designed to operate Adams Rite MS<sup>®</sup>1847 Deadlocks and 5017 Wood Door Deadlock. 1000-11 and 1000-21 have a rectangular escutcheon for mounting directly on door. 1000-01 and 1000-02 are without escutcheon, designed for easy push-nut mounting to door pull or other trim plate.



### Features

#### Materials

Turn Lever is zinc alloy. Escutcheon is stainless steel. Trim finish 130 Clear to match 628 Clear Anodized.

#### Spindles

Hardened steel, plated for corrosion resistance. First dash number in order guide indicates spindle parallel or perpendicular to turn lever (turn drawings below). Second dash number indicates spindle length "L" (see dash table on back).

#### Turn

**1004 Turn** has a longer, more ergonomically-friendly turn lever.

**1015 Turn** is available with 1016 Blank Plate for doors from 5/8" [15.9 mm] to 2-1/4" [57.2 mm] thickness. Without blank plate turn available (for use with cylinder pull) on doors from 7/16" [11.1 mm] to 2" [50.8 mm] thickness.

Standard finish 130 Clear to match 628 Clear Anodized. 1015 Turn for use with 5017 Wood Door Deadlock is specifically designed for wood door applications. 1016 Blank Plate available separately.

#### Standard Package

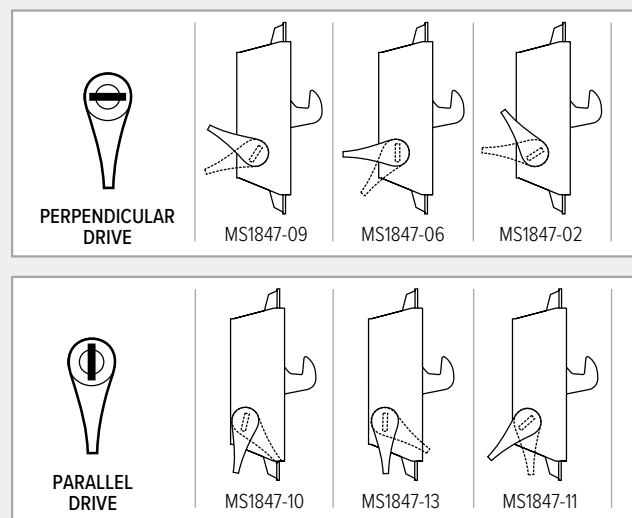
Individually packaged. The -11 and -21 are assembled with escutcheon. The -01 and -02 are unassembled, include turn, spindle, washer and push nut for assembly on the door pull plate.

#### Shipping weight

1/4 lb [0.11 kg].

### Options

- The availability of both perpendicular and parallel drives in these turns, coupled with the three hub drive positions of the MS1847 lock, provides several options.
- Choice of turn drive position relates directly to the particular lock hub drive position. Special care in specifying both the proper turn and lock in ordering is recommended.
- Chart below shows turn positions relative to lock hub positions. Broken line indicates direction of travel (45°) to retract bolt.



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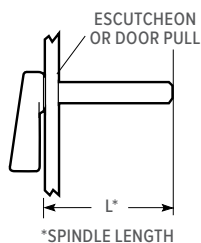
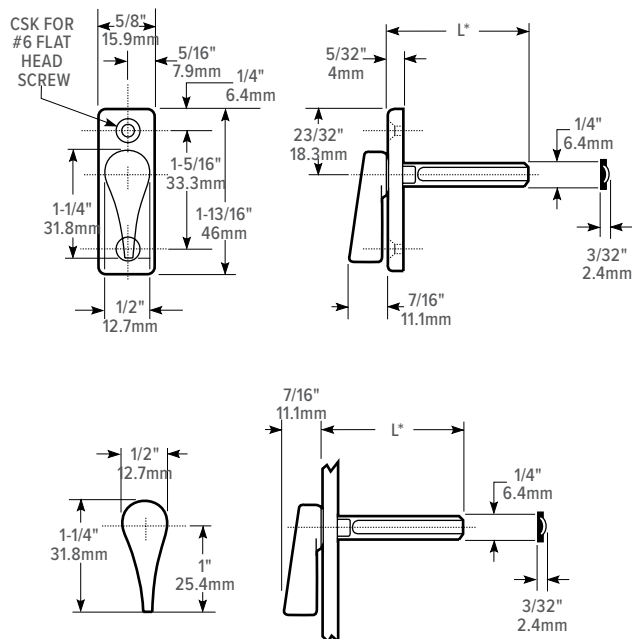
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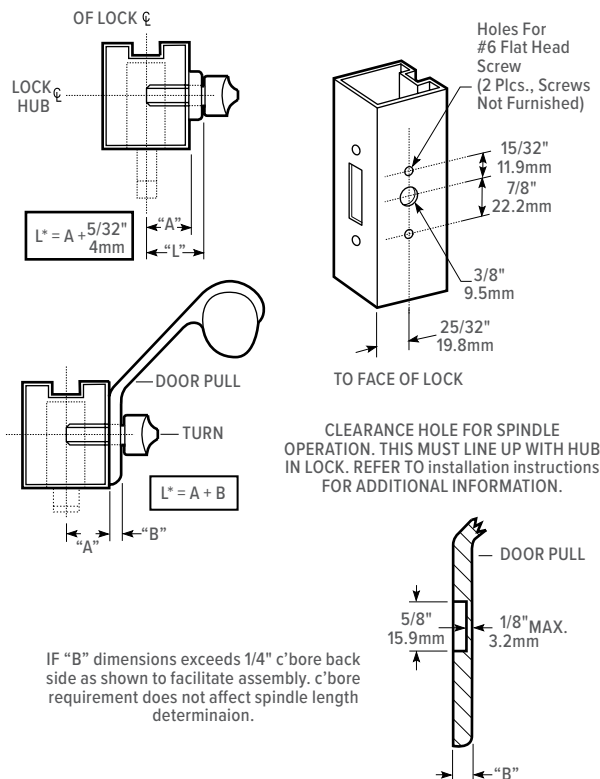
adamsrite.com

10027 S. 51st Street, Ste 102, Phoenix, Arizona 85044

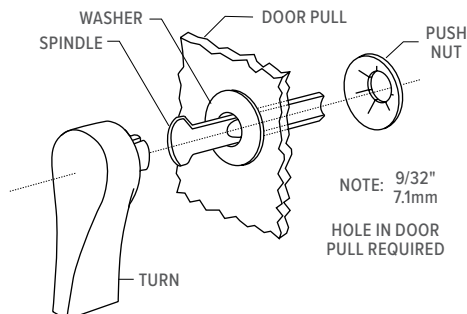
## Dimensions



## Stile Preparation Dash -11 or -21



## Installation Dash -01 or -02



## How to Order & Compatible Products

1000 Series Turns: Specify quantity and the following information. Order related products separately.

MODEL	TURN TYPE	SPINDLE LENGTH	FINISH
1000	-21	-14	-130
	TURN WITHOUT ESCUTCHEON Furnished Unassembled		
	<div> </div> <div> </div>		
	TURN WITH ESCUTCHEON Furnished Assembled		
	<div> </div> <div> </div>		

### COMPATIBLE

DEADLOCKS
MS1847 Deadlock
5017 Wood Door Deadlock

# 3080

## Series Entry Trim

The 3080 Series Entry Trim provides outside activation for doors with any type of Adams Rite exit device and deadlatch. The locked handle is protected from vandalism and forced entry with a breakaway clutching mechanism.

### Function

**The 3080 Series** provides outside activation of doors that have any type of Adams Rite exit device or deadlatch. Breakaway clutching mechanism protects the locked handle from vandalism or forced entry, in either direction. All models share the same core components, so levers can be changed without having to replace the entire trim.

**The 3080E Electrified Entry Trim** provides a solenoid that will allow the handle to be turned to unlatch the exit device. This means that when there is no remote activation, the handle is locked in place and the trim is locked and the exit device remains latched. When there is remote activation of the trim's solenoid, the trim is unlocked from the outside and the exit device remains latched. Because the continuous duty solenoid enables remote activation of the locking function of the trim without unlatching the exit device on the door, this trim is great for stairwell and fire door applications.



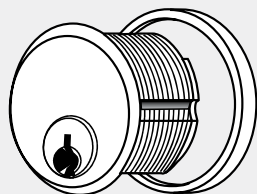
### Features

#### Handle

The 3080-01, -02, and -03 levers are designed to return within 1/2" [12.7 mm] of the door face. The designer levers in this series do not have this same feature. Please verify local code requirements to ensure compliance.

#### Mortise Cylinder

May be ordered with or without a hole for standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter cylinder with MS® Cam, available separately. See Cylinders & Accessories section for more cylinder information.



#### Standard Package

Individually boxed with mounting hardware.

#### Shipping weight

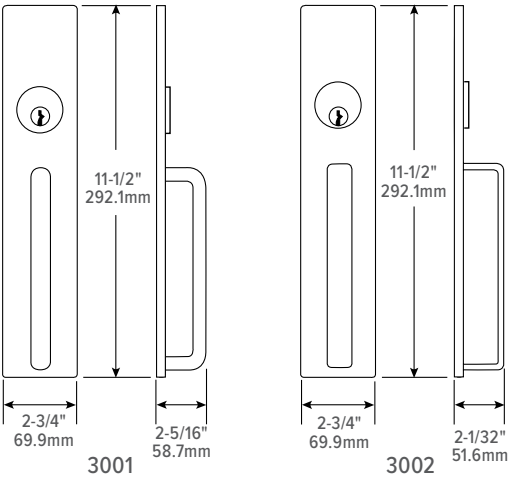
3 lbs [1.36 kg].

### Options

- Can be ordered with or without a hole for cylinder. Order standard mortise cylinder with MS® cam separately.
- Tactile strip available as a kitted option for standard levers 01 and 03. Order Tactile Strip Kit 91-0118 separately.
- Order 4603 Rectifier, 4605/4606 Transformer or PS-1 Power Supply separately.
- Available in choice of US3 (605) Bright brass, US4 (606) Satin brass, 10B powder coat to match dark bronze, US32 (629) Bright stainless, or US32D (630) Satin stainless.

# 3000 Fixed Pulls

3001, 3002 Fixed Pulls: US32D (630)  
Satin Stainless Steel pulls have 2-3/4" x 11-1/2" [69.9 mm x 292.1 mm] escutcheon.  
Order with or without cylinder holes. For hollow metal and wood doors only.

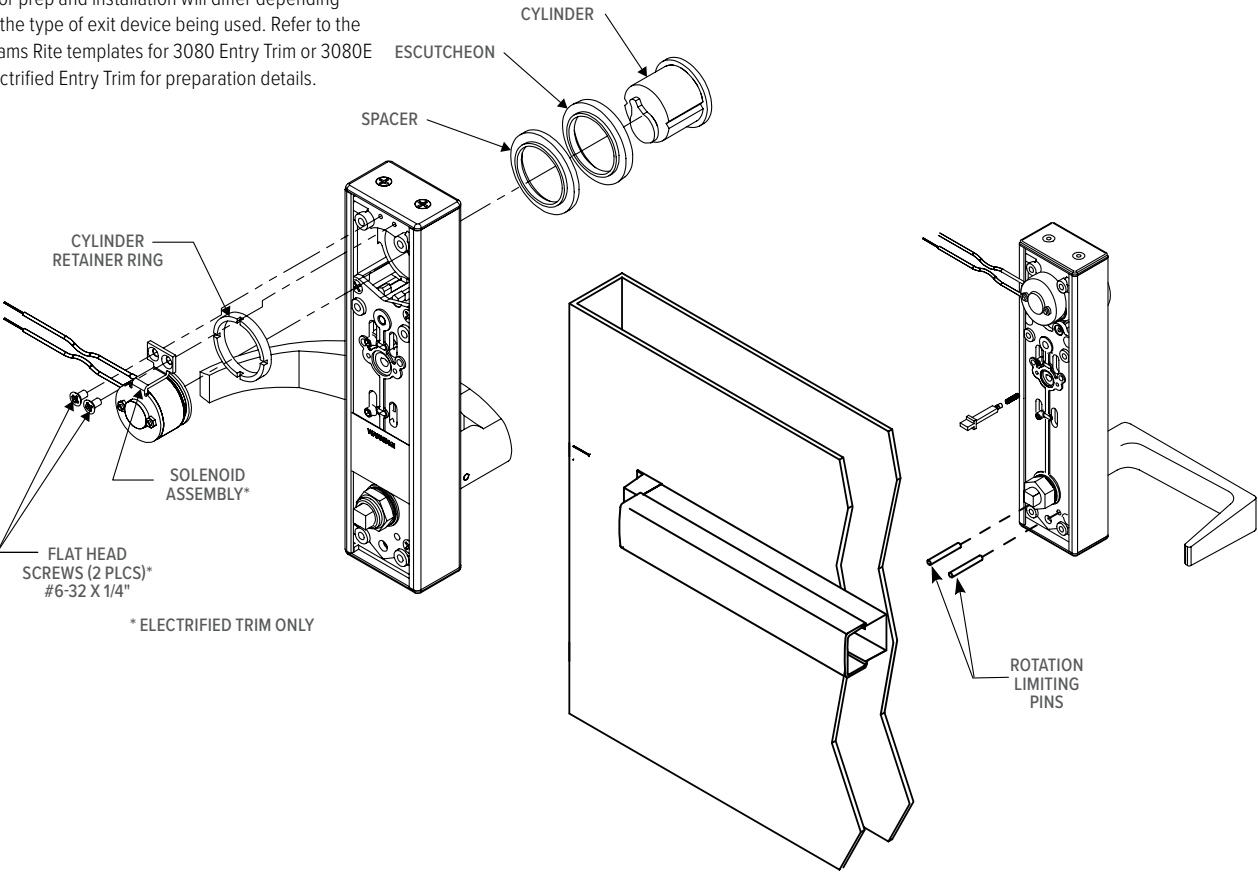


# Options & Accessories

	OPTION	DESCRIPTION
	Standard Series 01	Standard lever, curved
	Standard Series 02	Standard lever, round
	Standard Series 03	Standard lever, square
	Aventura Series ME	Studio Collection designer lever
	Aventura Series MG	Studio Collection designer lever
	Aventura Series MI	Studio Collection designer lever
	Aventura Series MW	Studio Collection designer lever
	Centro Series MD	Studio Collection designer lever
	Centro Series MJ	Studio Collection designer lever
	Odeon Series MN	Studio Collection designer lever
	Odeon Series MV	Studio Collection designer lever

# Door Preparation & Trim Installation

Door prep and installation will differ depending on the type of exit device being used. Refer to the Adams Rite templates for 3080 Entry Trim or 3080E Electrified Entry Trim for preparation details.

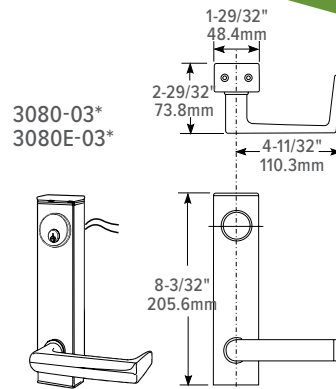
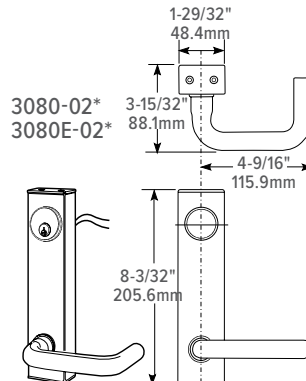
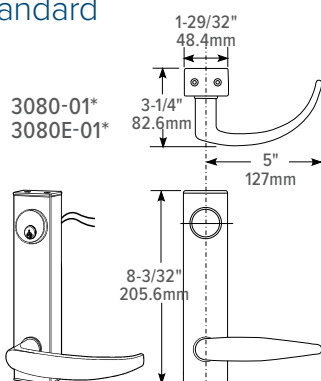


# Lever Dimensions

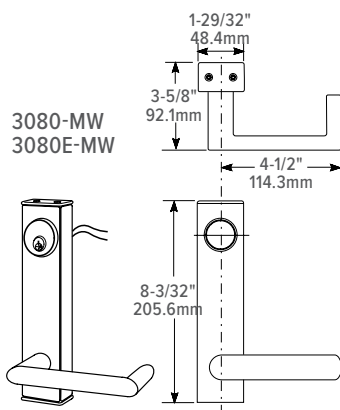
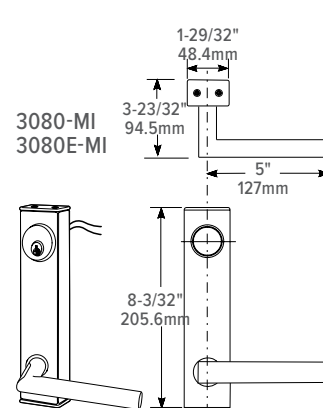
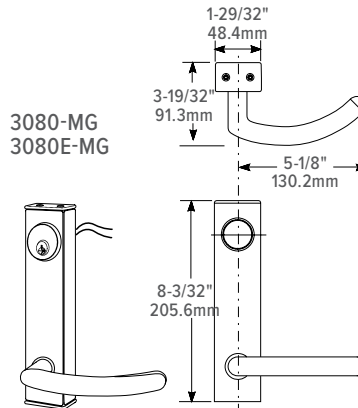
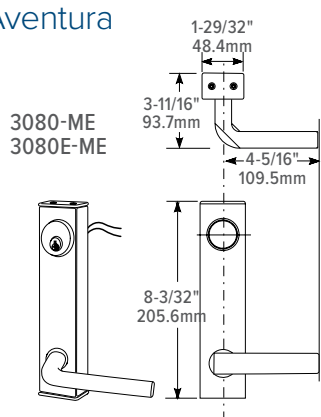
\* The 3080-01, -02, and -03 lever handles are designed to return within 1/2" of the door face. Handles in the Designer Series do not have this same feature. Please verify with local code requirements to ensure compliance.

\*\* Handed

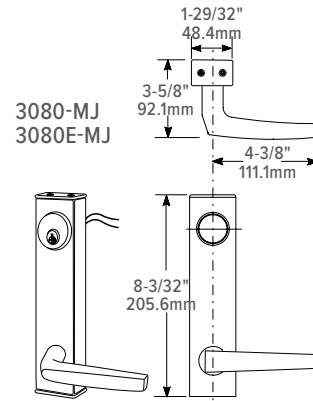
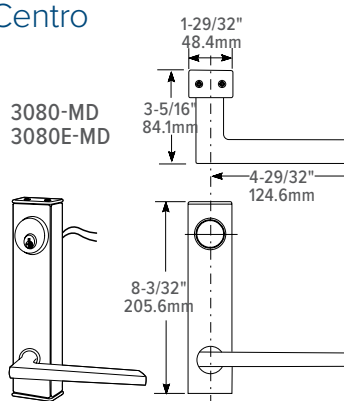
## Standard



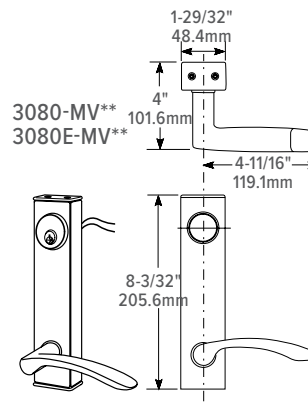
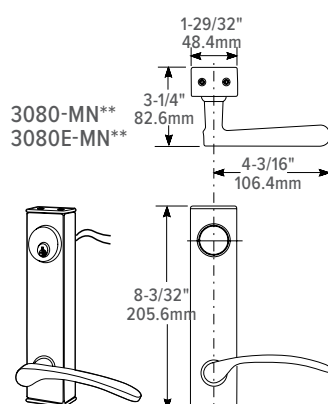
## Aventura



## Centro



## Odeon





# How to Order, Related, & Compatible Products

**3080 Series Entry Trim:** Specify quantity and the following information. Order related products separately.

MODEL	ELECTRIFIED	HANDLE	HANDING*	CYLINDER HOLE	EXIT DEVICE	VOLTAGE	FEATURES	TRIM COVER FINISH	FINISH
3080	E	-01	-0	-3	7	-3	0	M	US32D
	(blank) Standard	STANDARD HANDLES	0 No Handing	3 With Hole	1 SVR	Electrified Trim Only	Electrified Trim Only	- Standard (Black)	US3 Bright Brass
	E Electrified Trim	01 Curve	7 Left Hand	9 Without Hole	3 Mortise	3 12 Volt DC	0 Fail-Secure	M Matching Finish	US4 Satin Brass
		02 Round	8 Right Hand		4 SCVR	5 24 Volt DC	5 Fail-Safe		10B to match Dark Bronze
		03 Square			6 CVR				US32 Bright Stainless
		DESIGNER SERIES			7 Rim				US32D Satin Stainless
		MD MJ			U Universal Kit				
		ME MN* (Handed)							
		MG MV* (Handed)							
		MI MW							

\*Handing must be specified for MN and MV Designer Levers.

**3000 Fixed Pulls:** Specify quantity and the following information. Order related products separately.

MODEL	HANDLE	CYLINDER HOLE	EXIT DEVICE	FINISH
300	1	-1	1	-US32D
	1 Round	1 Without Hole	1 Mortise, Rim	US32D Satin Stainless
	2 Flat	2 With Hole	2 CVR	
			3 SVR	

NOTE: 3000 is not for use with the following narrow stile exit devices: 8200 SVR, 8400 Morstise, 8600 CVR, 8800 Rim

## RELATED

When purchasing this product, please consider the following related products, available separately:

CYLINDER	POWER
Standard 1" to 1-1/4" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder	4605, 4606 Transformer, 4603 Rectifier, PS-1 Power Supply, 4612 Power Transfer Device

## COMPATIBLE

DEADLATCHES	EXIT DEVICES	FLUSHBOLTS
4510, 4530, 4900, 4920AN Series Deadlatches	8100, 8200 SVR, 8300, 8400 Mortise, 8500, 8600 CVR, 8700, 8800 Rim, 8900 SCVR Exit Devices	4781 Flushlocks

# eForce® 3090-150

## Keyless Entry

A battery-operated keyless entry control device, the eForce 3090-150 Keyless Entry provides access control for Adams Rite deadlocks, deadlatches, and exit devices.

## Function

The eForce 3090-150 Keyless Entry is a battery-operated keyless entry control for Adams Rite deadlocks, deadlatches and exit devices, that is compatible with aluminum and hollow metal door applications. The device can accommodate up to 150 users, including master, supervisor, emergency users plus two one-time codes. The eForce 3090-150 can operate in three modes: Standard, Passage, and Lockout. All programming is accomplished via the keypad. Device operation is confirmed by both a visual LED light indicator and an audible sound generated by a Piezo horn.

## Operation

In the standard mode of operation, a programmed 2 to 7-digit character followed by a star (\*) key allows for one entry when used with Adams Rite deadlatches or exit devices. When an authorized code is entered, rotate lever downward 90° to unlock or unlatch locking device. When released, lever returns to horizontal. The MS Deadlocks must always be relocked manually when used with the eForce 3090-150. Hold open time is adjustable from 1 to 9 seconds. eForce 3090-150 accepts any standard mortise cylinder with MS® cam, available separately.



## Certifications

FCC Part 15 compliant.

## Features

- Surface mounted with concealed fasteners. Suitable for 1-3/4" [44.5 mm] to 2-1/4" [57.2 mm] door thickness.
- Non-handed with clutched lever protection.
- Powered by 4 AA alkaline batteries; supports 60,000 activations.

### Housing

Measures 1-3/4" [44.5 mm] wide x 15-3/8" [390.5 mm] high.

### Handle

Clutch-protected cast zinc alloy, finished to match housing, field selectable handing.

### Keypad

UV stable keypad material.

### Operating Temperatures

Full outdoor rating; Temperature range from -31 to +151F [-35 to +66C] and 5 to 95% humidity (non-condensing).

### Standard Package

Individually boxed with mounting hardware for 1-3/4" [44.5 mm] to 2-1/4" [57.2 mm] door thickness.

### Shipping weight

5-1/2 lbs [2.49 kg].

## Options

- Remote activation input cable RSK-3090 available separately.
- Available in choice of powder coat 121 Dark bronze to match 313 Dark bronze anodized, or US26D (626) Satin chrome.

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in door opening solutions

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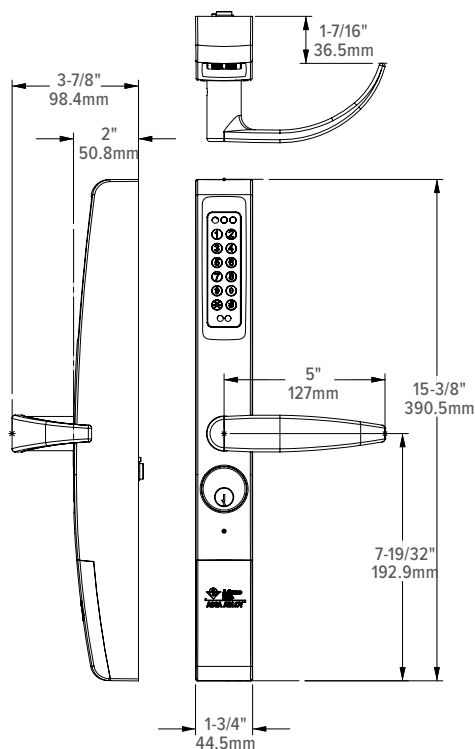
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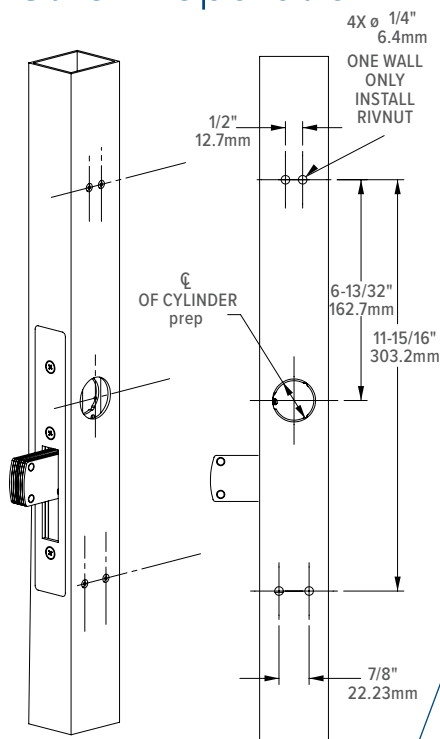
[adamsrite.com](http://adamsrite.com)

10027 S. 51st Street, Ste 102, Phoenix, Arizona 85044

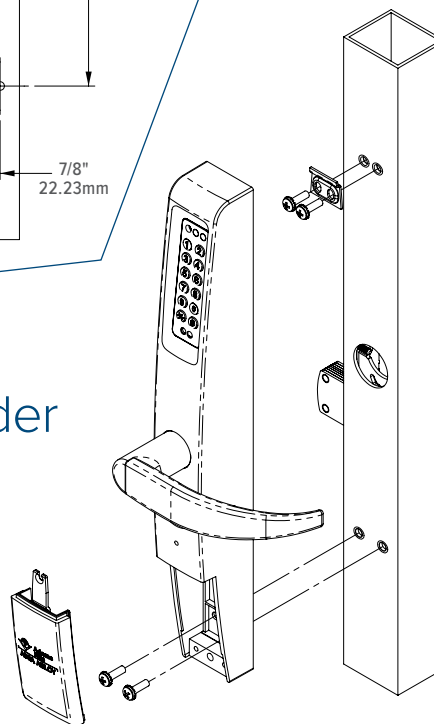
## Dimensions



## Stile Preparation



## Lock & Cylinder Installation



## How to Order, Related, & Compatible Products

**3090-150 eForce® Keyless Entry:** Specify quantity and the following information. Order related products separately.

MODEL	COMPATIBLE PRODUCTS	FINISH
3090	-01	-626
	01 Adams Rite latches or 8000 Series Exit Devices, Yale 7200 series, Corbin Russwin ED4000 series exit devices only	121 To match 313 Dark Bronze Anodized
	02 Adams Rite MS® deadlocks	626 Satin Chrome

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER
RSK-3090 Remote Activation Kit	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder

### COMPATIBLE

DEADLOCKS	DEADLATCHES	EXIT DEVICES
MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks	4510, 4530, 4900, 4920AN Series Deadlatches	8100, 8200 SVR, 8300, 8400 Mortise, 8500, 8600 CVR, 8700, 8800 Rim, 8900 SCVR Exit Devices with 31/32" backset or greater. Yale 7200 Series, Corbin Russwin ED4000 Series. Please check model number for availability.

# eForce® 3090P, 3090C Keyless Entry

The eForce 3090P (Prox) and 3090C (iCLASS® Keyless Entry Control for Adams Rite deadlocks, deadlatches and exit devices provides hardwired security with HID® Prox or iCLASS contactless card reader.

## Function

The eForce 3090P and 3090C Keyless Entry Controls are hardwired keyless entry trim for Adams Rite deadlocks, deadlatches and exit devices. Ideal for both exterior and interior aluminum and hollow metal door applications.

The **eForce 3090P Keyless Entry Control uses HID® Prox** contactless card reader for easy integration with existing credential systems. Direct Wiegand output allows for easy interface with any Wiegand-compatible access control system to accommodate flexible user access management.

The **eForce 3090C Keyless Entry Control uses HID® iCLASS** contactless card reader for easy integration with existing credential systems. Easily interfaces with access control systems to accommodate flexible user access management.

## Operation

When an authorized card is presented, an audible beep and visual change in the red/green LED indicator confirms authorization. A high-speed motor engages an internal clutch to enable the exterior lever operation. When released, lever returns to horizontal. Clutching action prevents damage to internal components. Upon timeout, the lever operation is disabled until the next authorized card presentation or key override. The MS Deadlocks must always be relocked manually when used with the eForce 3090P, 3090C Keyless Entry Trim. Hardwired installation: 18-22 AWG recommended (seven conductor stranded and shielded). 500 ft maximum distance to host. 3090P, 3090C Keyless Entry accept any standard mortise cylinder with MS® cam, available separately.



## Certifications

FCC Compliant

## Features

- Surface mounted with concealed fasteners. Suitable for 1-3/4" to 2-1/4" [44.5 mm to 57.2 mm] door thickness.
- Interfaces with any Wiegand-compatible access control
- Key override via mortise cylinder; 1" to 1-1/2" [25.4 mm to 38.1 mm] length with MS® cam (available separately)
- Audit trail limited by EAC

### Monitoring

Request to Exit (sold separately); door position

## Specifications

### Housing

Measures 1-3/4" [44.5 mm] wide x 15-3/8" [390.5 mm] high.

### Handle

Clutch-protected cast zinc alloy, finished to match housing; field selectable handing.

### Operating Temperatures

Full outdoor rating; Temperature range from -31 to +151F [-35 to +66C] and 5-95% humidity (non-condensing)

### Standard Package

Individually boxed with mounting hardware for 1-3/4" [44.5 mm] to 2-1/4" [57.2 mm] door thickness.

### Shipping weight

5-1/2 lbs [2.49 kg]

## Electrical

### 3090C iCLASS

- Integrated HID® 13.56 MHz iCLASS reader
- Supports credentials\*:
  - iCLASS® (ISO 15693)
  - CSN Read Only: MIFARE DESfire® EV1 and MIFARE Classic (ISO 14443A), Sony Felica (ISO 14443C)
- 12 VDC/150 mA average, 300 mA peak

### 3090P Prox

- Integrated HID® 125 KHz Prox contactless card reader
- Supports credentials\*: HID Prox
- 12 VDC/150 mA average, 300 mA peak

\*For information on migrating from one card technology to another or dual-technology card support, please contact 800-810-WIRE

## Options

- Cable Extension Kit 3090-CABLE with connectors allow for 12 ft wiring to run from installation site to hub, available separately.
- Available in choice of powder coat 121 to match 313 Dark bronze anodized, or US26D (626) Satin chrome.

## How to Order, Related & Compatible Products

**3090P, 3090C eForce® Keyless Entry:** Specify quantity and the following information. Order related products separately.

MODEL	CREDENTIAL	COMPATIBLE PRODUCTS	FINISH
3090	P	-01	-626
	P 125 kHz HID® Prox	01 Adams Rite latches or 8000 Series Exit Devices, Yale 7200 series, Corbin Russwin ED4000 series exit devices only	121 To match 313 Dark Bronze Anodized
	C 13.56 MHz HID iCLASS	02 Adams Rite MS® deadlocks	626 Satin Chrome

### RELATED

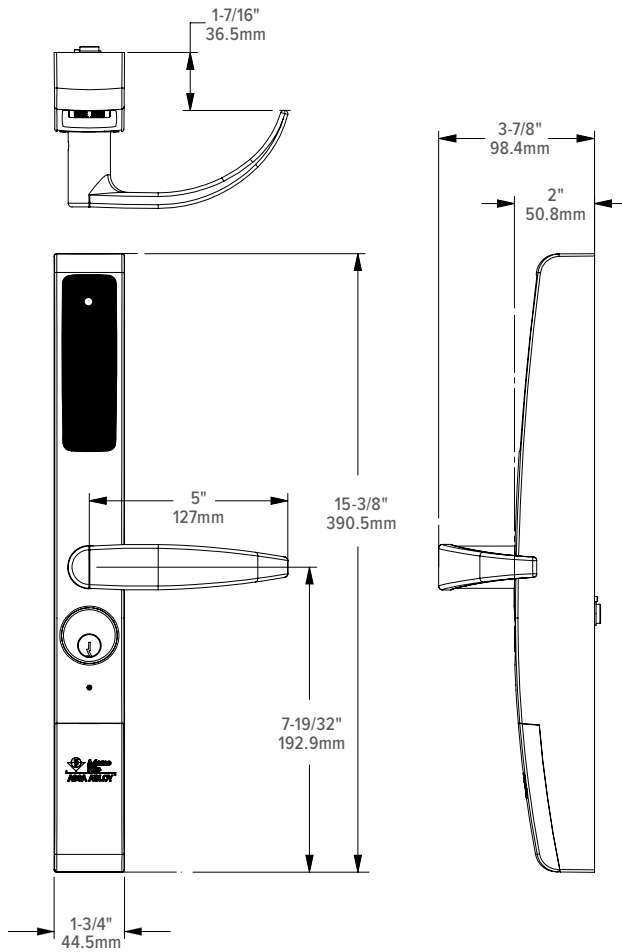
When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER	POWER
3090-CABLE 12' Cable Extension Kit	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder	PS-1 Power Supply, 4612 Power Transfer Device

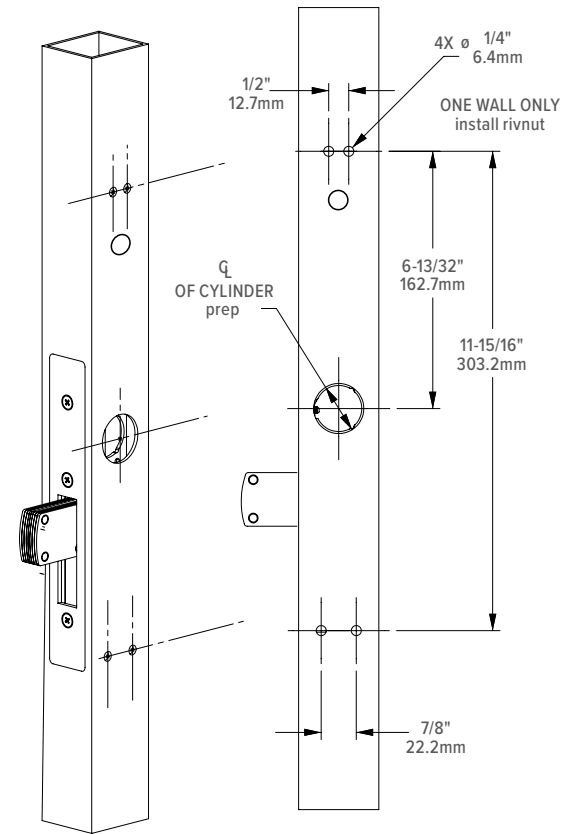
### COMPATIBLE

DEADLOCKS	DEADLATCHES	EXIT DEVICES
MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks	4510, 4530, 4900, 4920AN Series Deadlatches	8100, 8200 SVR, 8300, 8400 Mortise, 8500, 8600 CVR, 8700, 8800 Rim, 8900 SCVR Exit Devices with 31/32" backset or greater.  Yale 7200 Series, Corbin Russwin ED4000 Series. Please check model number for availability.

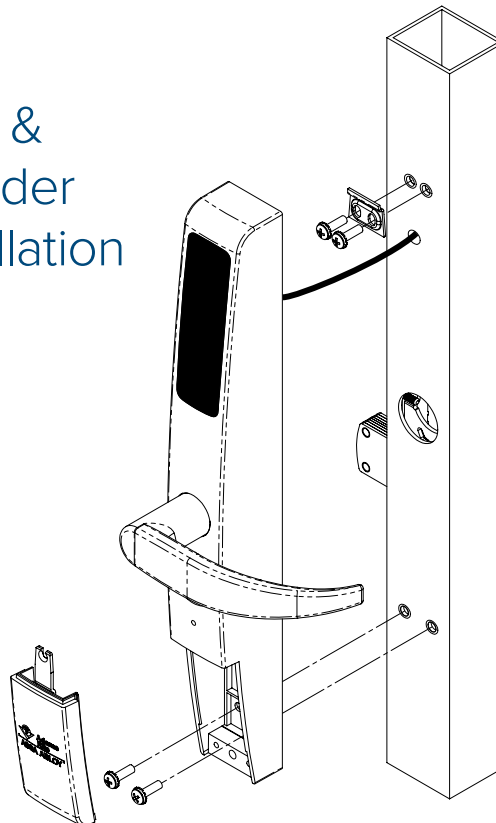
## Dimensions



## Stile Preparation



## Lock & Cylinder Installation





Battery operated  
**eForce® 3090-150**



**3090P/3090C**  
with integrated HID®  
Prox or iCLASS  
contactless card reader



**A100-3090H**  
with wireless  
Aperio® technology

# Hardwired or Wireless

Keyless entry products for  
basic to advanced access control

eForce® is a unique series of keyless entry controls for Adams Rite deadbolts, deadlatches and exit devices that are compatible with aluminum narrow stile, hollow metal, and wood door applications. The eForce series offers all the benefits of keyless security, along with flexibility, reliability and ease, to provide an innovative approach to access control.



# A100-3090H

## Keyless Entry Control & Aperio® Hub

The A100-3090H Keyless Entry Control for Adams Rite deadlocks, deadlatches and exit devices provide wireless security with HID® Prox or iCLASS contactless card reader that can be integrated into existing access control systems and is compatible with narrow stile aluminum and hollow metal door applications.

### Function

The A100-3090H Keyless Entry Controls with Aperio Hub is a wireless keyless entry trim for Adams Rite deadlocks, deadlatches and exit devices. Ideal for both exterior and interior aluminum and hollow metal door applications. The A100-3090H provides maximum security and audit trail with either an HID® Prox or iCLASS contactless card reader for easy integration with existing credential systems to accommodate flexible user access management.

### Operation

When an authorized card is presented, an audible beep and visual change in the red/green LED indicator confirms authorization. A high-speed motor engages an internal clutch to enable the exterior lever operation. When released, lever returns to horizontal. Clutching action prevents damage to internal components. Upon timeout, the lever operation is disabled until the next authorized card presentation or key override. The MS Deadlocks must always be relocked manually when used with the A100-3090H Keyless Entry Trim. A100-3090H accepts any standard mortise cylinder with MS® cam, available separately.



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## Certifications

FCC Compliant

## Features

- Aperio wireless technology
- Surface mounted with concealed fasteners. Suitable for 1-3/4" to 2-1/4" [44.5 mm to 57.2 mm] door thickness.
- Key override via mortise cylinder; 1" to 1-1/2" [25.4 mm to 38.1 mm] length with MS® cam (available separately)
- Audit trail limited by EAC
- Monitoring**  
Request to Exit, available separately; door position; tamper.

## Specifications

### Wireless Access Control

Minimal field configuration for quick, easy wireless deployments that eliminate the cost and inconvenience of hardwiring the door. Fully-encrypted AES 128 bit wireless communication between the A100 lock and Aperio® hub ensures data security. The Aperio® wireless hub connects to an access control system with typical Wiegand wiring and additional REX, DPS, tamper and low batter signal wires. The Aperio® hub should be mounted within 50' of the desired lock location and through two walls or less

### Housing

Measures 1-3/4" [44.5 mm] wide x 15-3/8" [390.5 mm] high

### Handle

Clutch-protected cast zinc alloy, finished to match housing, field selectable handing.

### Operating Temperatures

Full outdoor rating; Temperature range from -31 to +151F [-35 to +66C] and 5 to 95% humidity (non-condensing)

### Standard Package

Individually boxed with wireless hub and mounting hardware for 1-3/4" [44.5 mm] to 2-1/4" [57.2 mm] door thickness.

### Shipping weight

6 lbs [2.72 kg]

## Electrical

- Powered by 4 AA alkaline batteries with low battery indication
- Integrated HID® 13.56 MHz iCLASS reader supports credentials\*: HID iCLASS® (ISO 15693)
- Integrated HID® 125 KHz Prox contactless card reader supports credentials\*: HID Prox

\*For information on migrating from one card technology to another or dual-technology card support, please contact 800-810-WIRE

## Options

- DPS switch (DPS-C-38G)
- Available in choice of powder coat 121 to match 313 Dark bronze anodized, or US26D (626) Satin chrome.

### Product Note

The Adams Rite A100 narrow stile trim is available as either a pre-paired lock and hub kit (no certification required) or as a field configurable component (requires Aperio® Certified Integrator certification). Pre-paired kits support limited features, field configured devices are required in order to support all options. Visit [IntelligentOpenings.com](https://www.intelligentopenings.com) to learn more.

## How to Order, Related & Compatible Products

**A100-3090H Aperio Keyless Entry Wholesale Kit:** Specify quantity and the following information. Order related products separately.

MODEL	CREDENTIAL	COMPATIBLE PRODUCTS	FINISH
A100-3090H	C	-1	-626
	P 125 kHz HID® Prox	1 Adams Rite latches or 8000 Series Exit Devices, Yale 7200 series, Corbin Russwin ED4000 series exit devices only	121 To match 313 Dark Bronze Anodized
	C 13.56 MHz HID iCLASS	2 Adams Rite MS® deadlocks	626 Satin Chrome

### RELATED

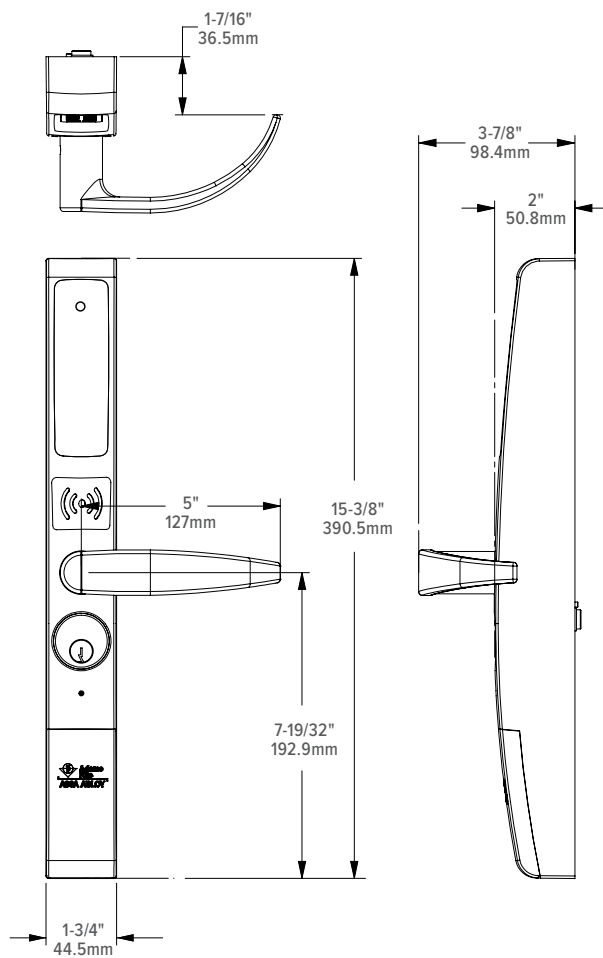
When purchasing this product, please consider the following related products, available separately:

ACCESSORIES	CYLINDER
DPS-C-38G DPS Switch	Standard 1" length, 1-5/32" diameter mortise cylinder with MS® cam such as 4036 Mortise Cylinder

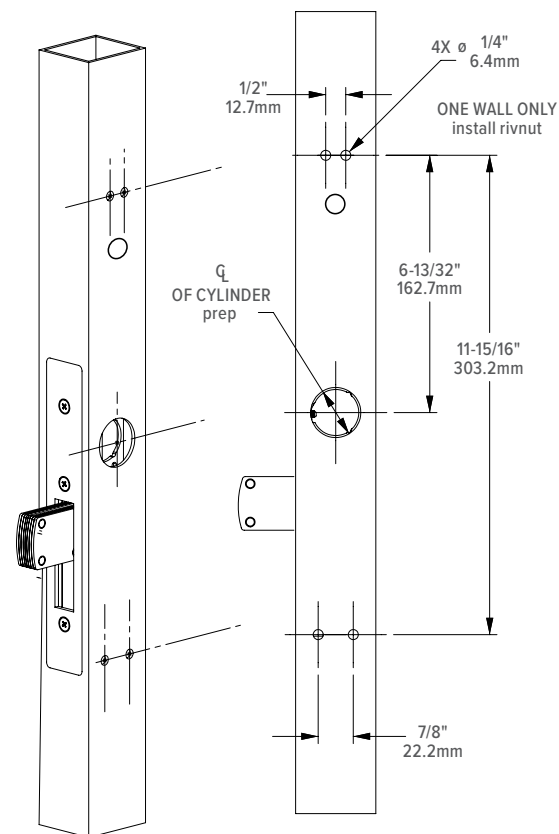
### COMPATIBLE

DEADLOCKS	DEADLATCHES	EXIT DEVICES
MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks	4510, 4530, 4900, 4920AN Series Deadlatches	8100, 8200 SVR, 8300, 8400 Mortise, 8500, 8600 CVR, 8700, 8800 Rim, 8900 SCVR Exit Devices with 31/32" backset or greater.  Yale 7200 Series, Corbin Russwin ED4000 Series. Please check model number for availability.

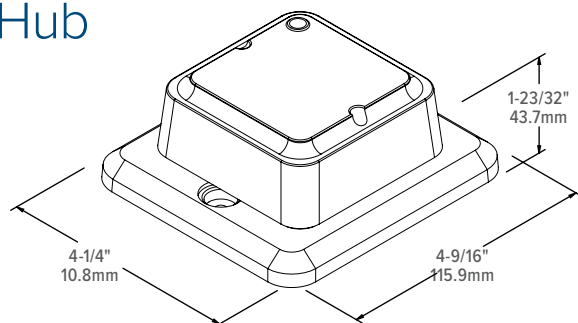
## Dimensions



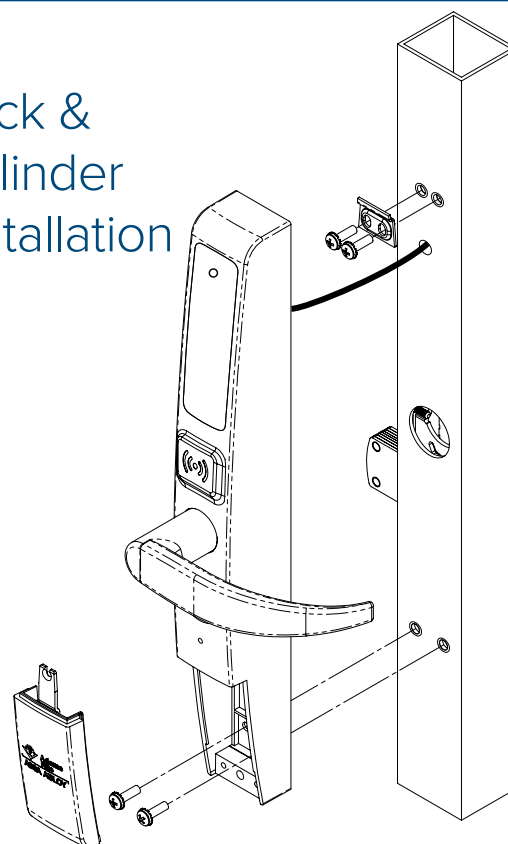
## Stile Preparation



## Hub



## Lock & Cylinder Installation





# 4550 MS®

## Deadlock Lever

The 4550 MS® Deadlock Lever easily unlocks an MS® Deadlock with approximately three pounds of downward force. The spring-loaded lever relocks with an upward motion.

### Function

Easy unlocking of most MS Deadlocks by approximately 3 lbs [1.36 kg] downward force on a 3" [76.2 mm] lever. Lever is spring loaded to horizontal, relocks with upward motion. Indicator signals lock status. Can be installed in place of existing key cylinder or cylinder type thumbturn on inside of door. 4550 Deadlock Lever not compatible with 7/8" [22.2 mm] backset locks.

### Operation

Rotate lever downward 90° to unlock. When released, lever returns to horizontal. Rotate lever upward 90° to relock. Key operation from outside is not affected. Clutching action prevents damage to internal components.



### Features

#### Housing

Aluminum casting is 1-3/8" wide x 7-1/2" long x 1" deep [34.9 mm x 190.5 mm x 25.4 mm].

#### Lever

3" [76.2 mm] long aluminum with end-return design offers comfortable grip to lock or unlock.

#### Indicator

Words "LOCKED" in red letters or "OPEN" in green letters appear on white background when bolt is thrown or retracted respectively. Indicator is driven by lock bolt itself.

#### Stop Clearance

Lever housing projects 11/16" [17.5 mm] forward of cylinder backset centerline. Depending on height of door stop and width of door/jamb gap, it may be necessary to modify the stop to clear the housing. For fin type stops, this is easily accomplished. Hollow stops may preclude use of lever. Please contact factory for more detailed information.

#### Compatible Locking Devices

Any MS® pivoted bolt deadlock including "Schoolhouse" versions can be fitted with the 4550 including MS1850S, MS1950.

Derivative units such as 1870 or 1870HM, flushbolts that bolt into threshold are also operable by the 4550 lever.

Not compatible with MS+1890 Deadlock/Deadlatch or 2190 Interconnected Deadlock/Deadlatch or with 7/8" [22.2 mm] backset locks.

#### Standard Package

Individually boxed with mounting hardware and drive pins for both single point and threshold bolt-equipped locks.

#### Shipping weight

3 lbs [1.36 kg].

### Options

- Available in choice of powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, and 130 to match 628 Clear anodized.
- Ordered for left or right hand door, but is easily reconfigured in the field to accommodate either door swing.

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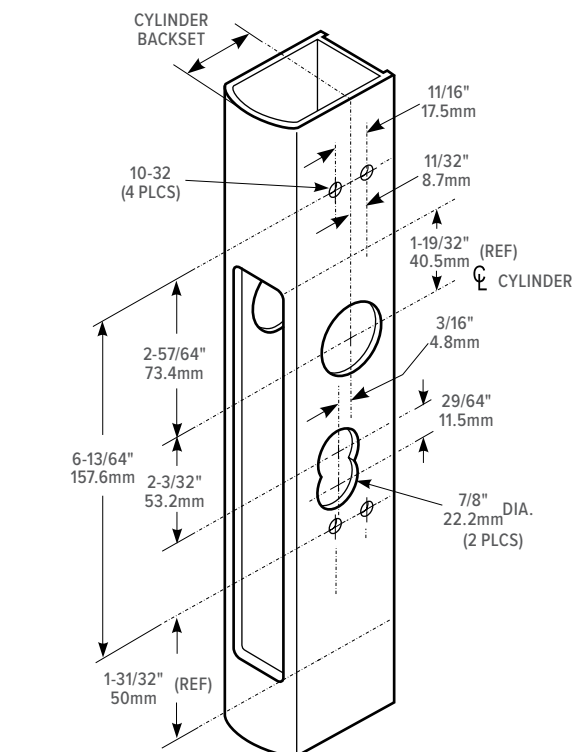
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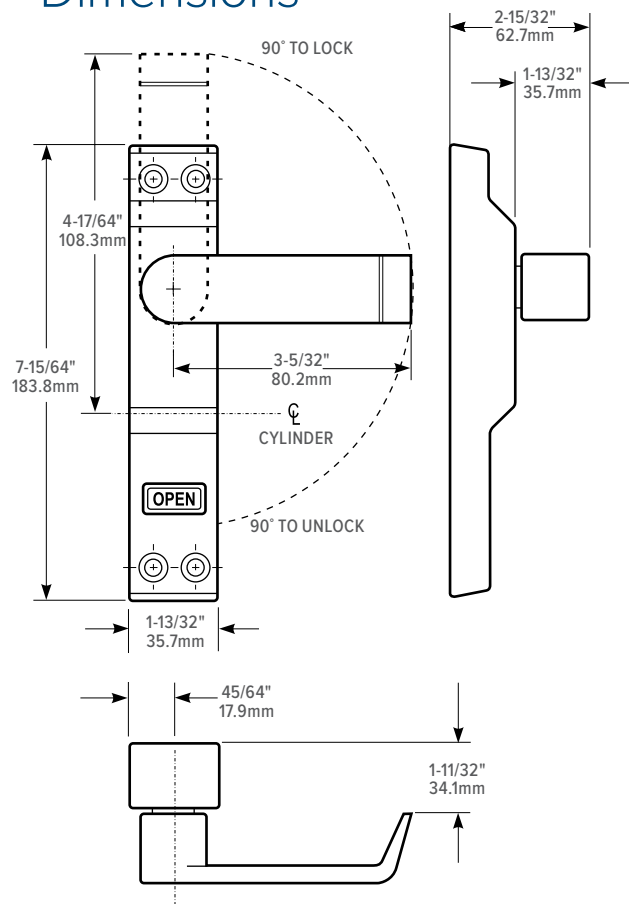


All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

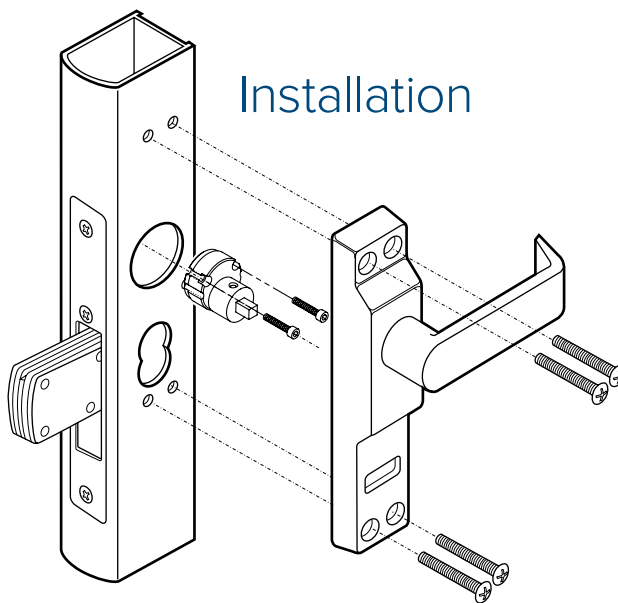
## Stile Preparation



## Dimensions



## Installation



## How to Order & Compatible Products

**4550 MS® Deadlock Lever:** Specify quantity and the following information. Order related products separately.

MODEL	DOOR HAND	DOOR THICKNESS	FINISH
4550	R	-01	-130
	R RH or RHR	01 1-3/4" to 2"	119 To match 335 Black Anodized
	L LH or LHR	02 2-1/8" to 2-3/8"	121 To match 313 Dark Bronze Anodized
			130 To match 628 Clear Anodized

**COMPATIBLE**

DEADLOCKS	FLUSHBOLTS
MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks (not compatible with 7/8" backset)	1870, 1870HM Series Flushlocks

# 4560 Series

## Deadlatch Handles

The 4560 Series Deadlatch Handles easily unlock the 4300, 4500 and 4900 Series Deadlatches. These handles fit solidly into the cylinder hole of Adams Rite deadlatches.

### Function

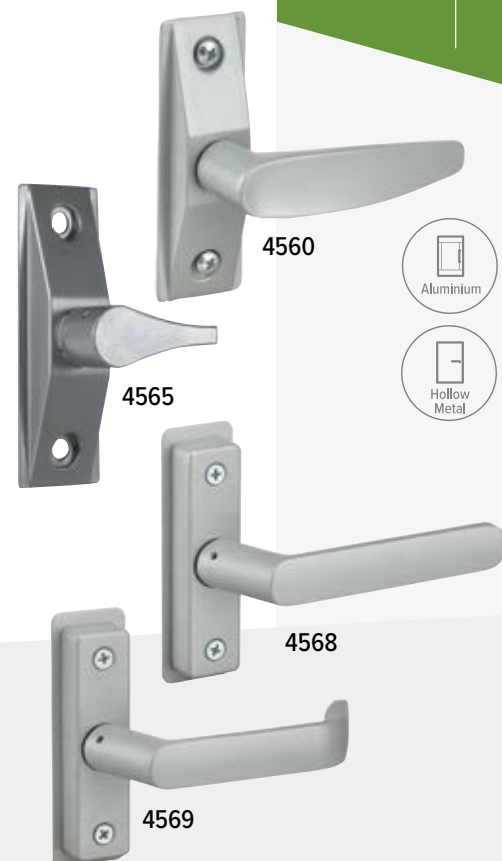
Designed to operate 4300, 4500 and 4900 Series Deadlatches by a natural downward hand movement, these handles incorporate an activator cam disc that mounts on the handles' escutcheon and fits solidly into the cylinder hole of the latch. Not intended for use as a door pull.

**4560** handles feature an ADA compliant lever shaped to fit the hand.

**4565** handles feature a thumbturn of minimum practical length.

**4568** handles feature an ADA compliant lever shaped to fit the hand.

**4569** handles feature a return end, often required by code.



### Features

#### Handle

Handle of cast aluminum.

**4560:** ADA compliant lever is shaped to fit the hand, with a concave thumb-rest portion that tends to keep knuckles and thumb safely away from the jamb, even on a short backset narrow stile.

**4565:** Thumbturn of minimum practical length is designed to offer a firm grip to the fingertips. Ideal for doors where the latch is operated infrequently.

**European styling of 4568 and 4569** offers a generous hand grip with shank offset from the narrow stile jamb for hand safety. Rugged construction ensures dependable performance, with a high-wear spring to return the handle to position after use.

**4568:** ADA compliant lever is shaped to fit the hand.

**4569:** ADA compliant lever features a return end, often required by code. Please verify local code requirements to ensure compliance.

#### Escutcheon

A 1/4" [6.4 mm] square heat-treated spindle is part of escutcheon assembly, which interlocks with the cam plug. Finished to match lever.

**4560, 4565** use the same sloping 1-3/8" x 4" [34.9 mm x 101.6 mm] escutcheon, designed to match the clean lines of a narrow stile door.

**4568, 4569** use the same 1-3/8" x 4" [34.9mm x 101.6mm] escutcheon, designed to match the clean lines of a narrow stile door. Steel mounted base is secured by hidden screws and has two large helical compression springs (one becomes a "spare" once handing is given).

#### Cam Plug

Secured in latch body by cylinder set screw, the plug is also rigidly tied to handle escutcheon by hardened steel pins. Handing can be reversed by removing a spring clip, reversing the cam, and replacing the clip.

#### Standard Package

Individually packaged with mounting hardware and cam plug handed LH or RH as specified.

#### Shipping Weight

2 lbs [0.91 kg].

**4560, 4565** are also available bulk-packed in cartons, up to 100 per carton. Please contact factory for more information.

### Options

- Ordered for left hand (LH) or right hand (RH) door, but is easily reconfigured in the field to accommodate either door swing.
- Standard handles are for 1-3/4" [44.5 mm] thick doors. Please contact factory for doors up to 3-1/4" [82.6 mm] available by special order.
- Available in choice of powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, and 130 to match 628 Clear anodized.

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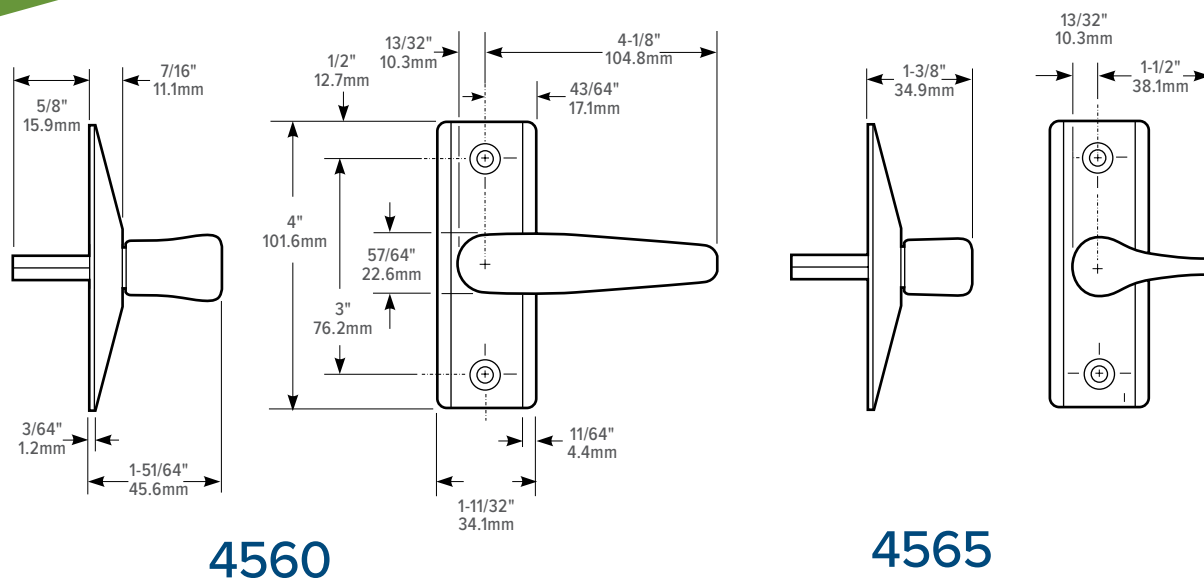
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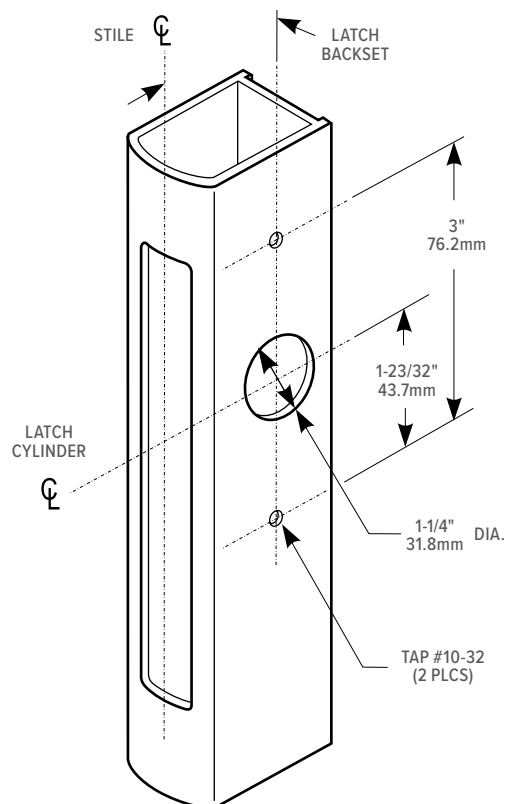
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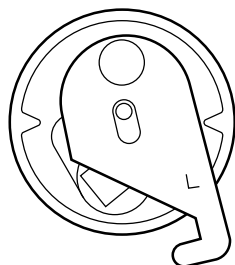
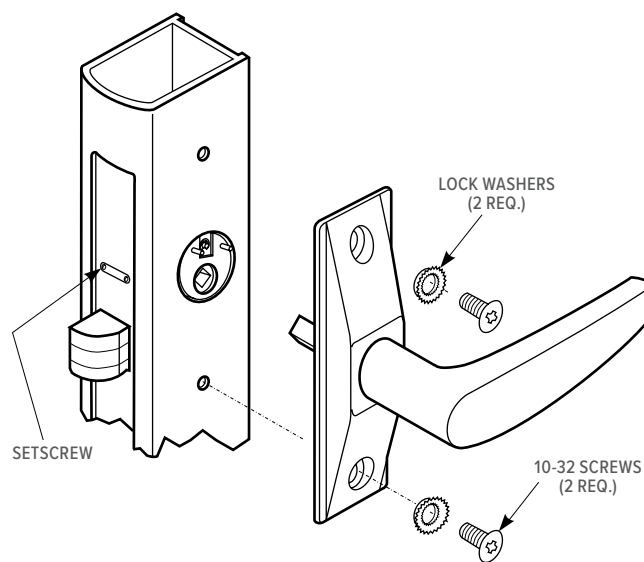
## Dimensions



## Narrow Stile Preparation



## Installation

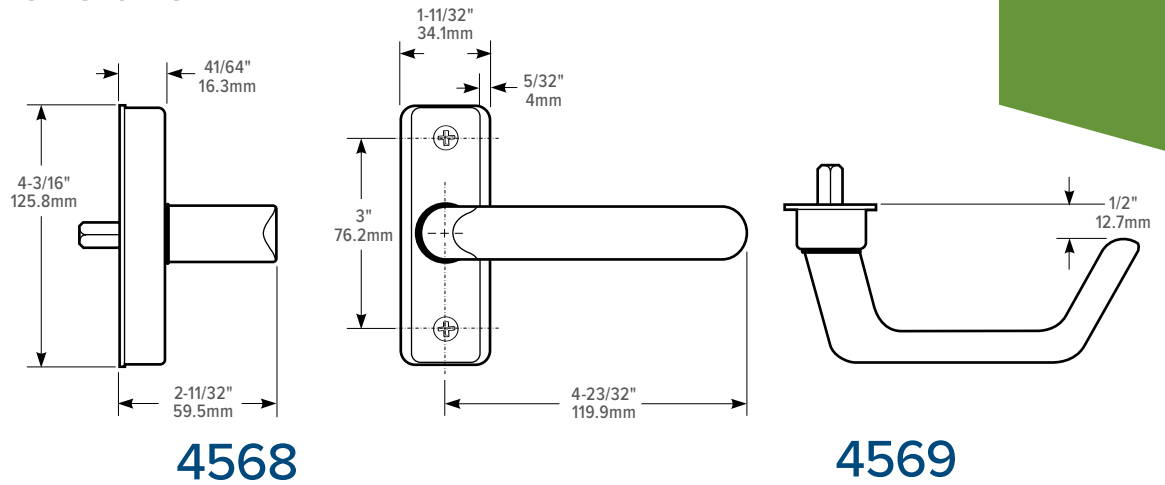


### REVERSIBLE 4580 CAM DISC

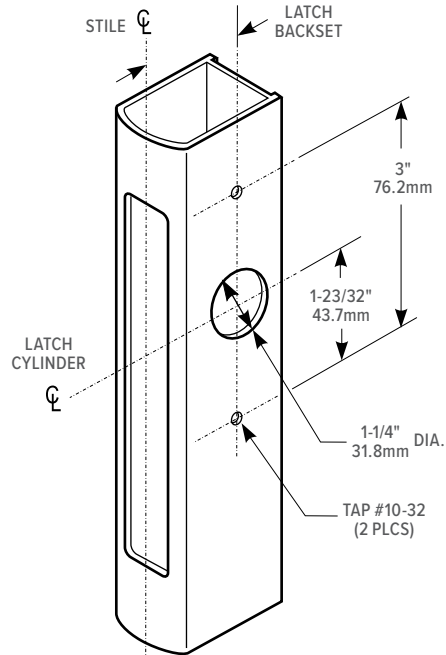
Included with 4560 Series  
Deadlatch Handles.

Required to operate  
4500 / 4900 / existing 4700 series latches.

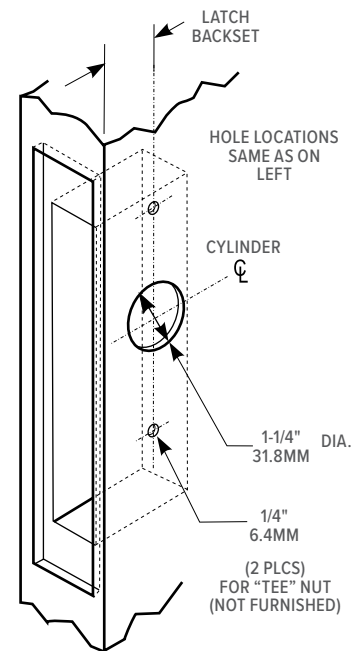
## Dimensions



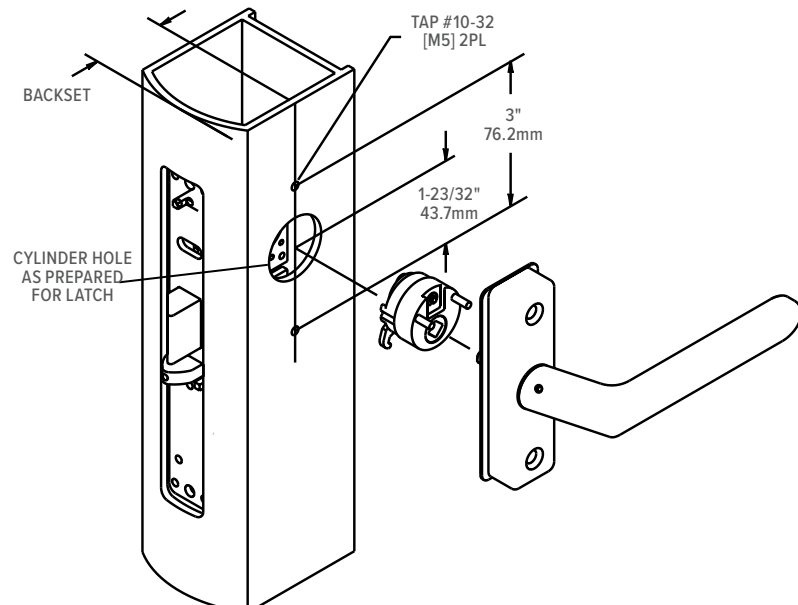
## Narrow Stile Preparation



## Wood Door Preparation



## Installation



# How to Order & Compatible Products

**4560, 4565 Deadlatch Handles:** Specify quantity and the following information. Order related products separately.

MODEL	HANDLE TYPE	HANDING	DOOR THICKNESS	FINISH
456	0	-5	01	-130
	0 Lever	0 Using MS+1890	For 4300, 4500, 4900 Series Deadlatches	119 To match 335 Black Anodized
	5 Turn	5 LH or LHR	01 1-3/4" to 2"	121 To match 313 Dark Bronze Anodized
		6 RH or RHR	02 2-1/4" to 2-1/2"	130 To match 628 Clear Anodized
			03 2-3/4" to 3"	
			04 3-1/4"	
			For MS+1890	
			11 1-3/4"	
			12 1-3/4" to 2-1/4"	
			13 2-5/16" to 2-3/4"	

**4568, 4569 Deadlatch Handles:** Specify quantity and the following information. Order related products separately.

MODEL	LEVER TYPE	HANDING	DOOR THICKNESS	FINISH
456	8	-5	01	-130
	8 Straight	0 Using MS+1890	For 4300, 4500, 4900 Series Deadlatches	119 To match 335 Black Anodized
	9 Return End	5 LH or LHR	01 1-3/4" to 2"	121 To match 313 Dark Bronze Anodized
		6 RH or RHR	02 2-1/4" to 2-1/2"	130 To match 628 Clear Anodized
			03 2-3/4" to 3"	
			04 3-1/4"	
			For MS+1890	
			11 1-3/4" to 1-15/16"	
			12 1-3/4" to 2-1/4"	
			13 2-5/16" to 2-3/4"	
			14 3"	

## COMPATIBLE

DEADLOCKS	DEADLATCHES
MS+1890 Deadlock/Latch	4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN Series Deadlatches.
2190 Series Interconnected Deadbolt/Deadlatch (4568, 4569 only)	

# 4590

## Deadlatch Paddle

The 4590 Deadlatch Paddle is an ergonomically-friendly alternative to a knob or lever handle. Operate with a simple push or pull.

### Function

An alternative to knob or lever handles. Makes opening a latched door as natural as opening an unlatched one – just push or pull in the direction in which the door swings. Compatible with any Adams Rite 4300, 4500 or 4900 Series Deadlatch, MS+1890 Deadlock/Deadlatch, or 2190/2290 Interconnected Deadbolt/ Deadlatch.

### Operation

Available in four configurations: push left, push right, pull left, and pull right.



### Features

#### Paddle

Extruded aluminum.

#### Escutcheons

Zinc alloy with black finish. Secured to door stile with special binder posts that extend into the escutcheon to rigidly resist torque loads in any direction.

#### Cam Plug

Furnished for use with 4300, 4500 and 4900 Series Deadlatches. Cam plug not for use with MS+1890 Deadlock/Deadlatch or 2190/2290 Interconnected Deadbolt/ Deadlatch. Secured in latch body by cylinder set screw, plug is also rigidly tied to escutcheon by hardened steel pins.

#### Standard Package

Individually boxed with mounting hardware. Units for 4300, 4500 or 4900 Series Deadlatches include cam plug.

#### Shipping weight

1-1/2 lb [0.68 kg].

### Options

- First dash number specifies operation, handing and compatible latch. If required, use second dash number to specify non-standard units for doors thicker than 1-3/4" [44.5 mm]. Please see configuration table or contact factory for more information.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

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Technical drawing of the 1000 Series Single Lever Lockset showing front, side, and detail views with dimensions.

**Front View Dimensions:**

- Overall Width: 5-29/32" (150mm)
- Overall Height: 4" (101.6mm)

**Side View Dimensions:**

- Backset (Distance from edge to center of bore hole): 1-11/32" (34.1mm)

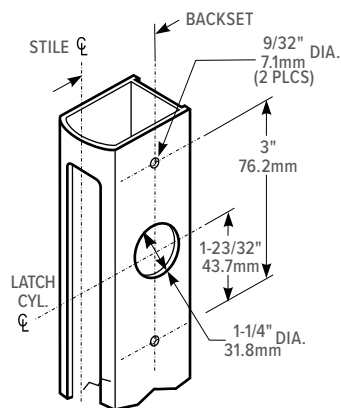
**Detail View Dimensions (Lever and Base):**

- Lever Width: 1" (25.4mm)
- Base Height: 1-19/64" (32.9mm)
- Lever Travel (Push/Pull): 2-5/16" (58.7mm)
- Base Mounting Hole Diameter: 9/16" (14.2mm)

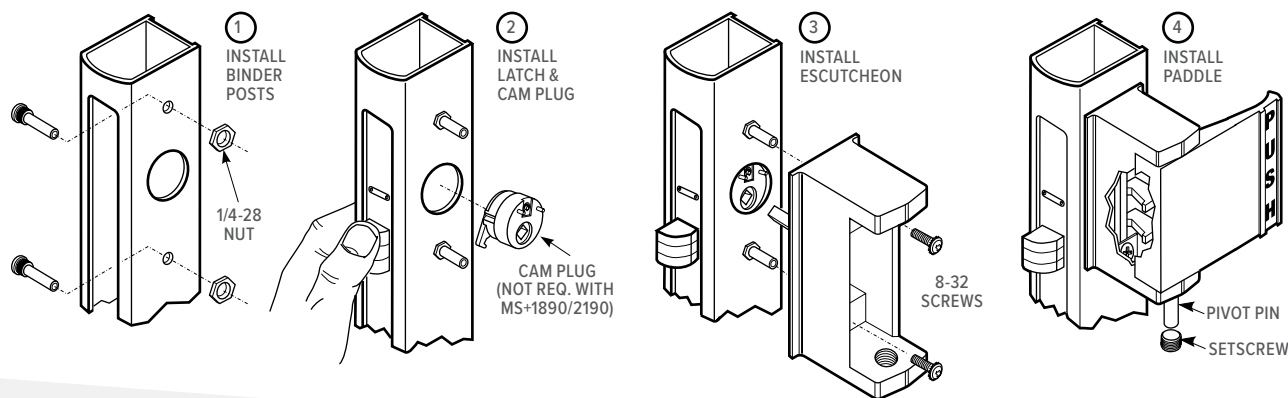
**Notes:**

- \*SHOWN AT REST.
- PADDLE TRAVEL IS: 1-29/32" (48.4mm)

For 4500/4900 latches, see MS+1890/2190  
for different hole pattern



## Installation



**4590 Deadlatch Paddle:** Specify quantity and the following information. Order related products separately.

\*Finish applied to paddle assembly only, not escutcheon.

DEADLOCKS	DEADLATCHES
MS+1890 Deadlock/Latch, 2190 Series Interconnected Deadbolt/Deadlatch	4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN Series Deadlatches.

# 4591

## Deadlatch Paddle

The 4591 Deadlatch Paddle is an ergonomically-friendly alternative to a knob or lever handle. Operate with a simple push or pull.

### Function

An alternative to knob or lever handles. Makes opening a latched door as natural as opening an unlatched one – just push or pull in the direction in which the door swings. Compatible with any Adams Rite 4300, 4500 or 4900 Series Deadlatch, MS+1890 Deadlock/Deadlatch, or 2190/2290 Interconnected Deadbolt/ Deadlatch.

### Operation

Available in four configurations: push left, push right, pull left, and pull right. Can be reconfigured to any mode in the field. Dogging may not be utilized in pull configuration.



### Features

#### Paddle

Extruded aluminum.

#### Escutcheons

Zinc alloy with black finish. Secured to door stile with special binder posts that extend into the escutcheon to rigidly resist torque loads in any direction.

#### Cam Plug

Furnished for use with 4300, 4500 and 4900 Series Deadlatches. Cam plug not for use with MS+1890 Deadlock/Deadlatch or 2190/2290 Interconnected Deadbolt/ Deadlatch. Secured in latch body by cylinder set screw, plug is also rigidly tied to escutcheon by hardened steel pins.

#### Monitor Switches

**4591M:** Paddle without latch drive mechanism but with switch that can be wired to make or break a low voltage circuit.

**4591MA:** Paddle with latch drive mechanism, complete active paddle with switch.

**91-0914 Monitor Switch Kit:** Adds monitor switch function to 4591 Paddle for "push" version only.

#### Paddle Dogging

"PUSH" version only:  
Turning hex key in escutcheon holds the paddle down, leaving door free-swinging. Dogging key provided.

#### Standard Package

Individually boxed with mounting hardware. Units for 4300, 4500 or 4900 Series Deadlatches include cam plug.

#### Shipping weight

1-1/2 lb [0.68 kg].

### Options

- First dash number specifies operation, handing and compatible latch. If required, use second dash number to specify non-standard units for doors thicker than 1-3/4" [44.5 mm]. Please see configuration table or contact factory for more information.
- 4591M Paddle switch to actuate magnetic lock, alarm, etc. No latch retracting mechanism.
- 4591MA Active paddle with switch and latch retracting mechanism.
- 4781 Two-Point Deadlatch uses a modified, but matching version of the 4591 Paddle.
- Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized. US3 (605) Bright brass, and US26D (626) Satin chrome special finishes are also available

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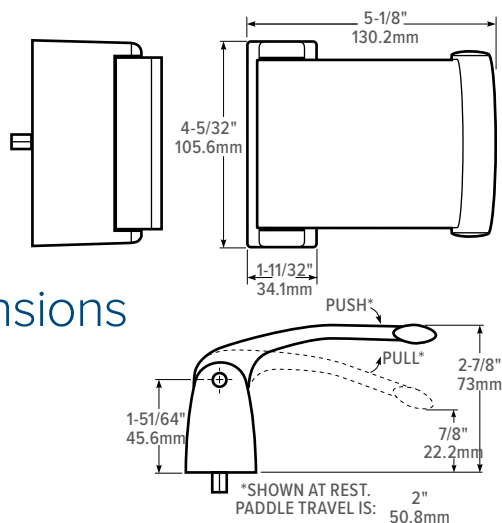
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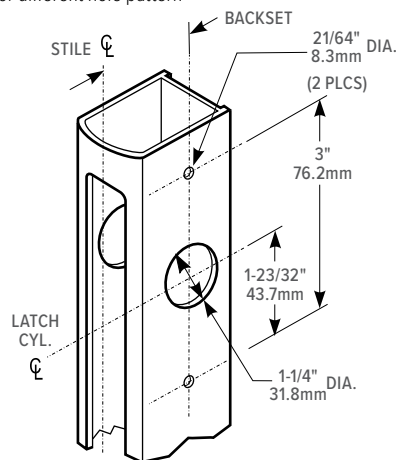
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.



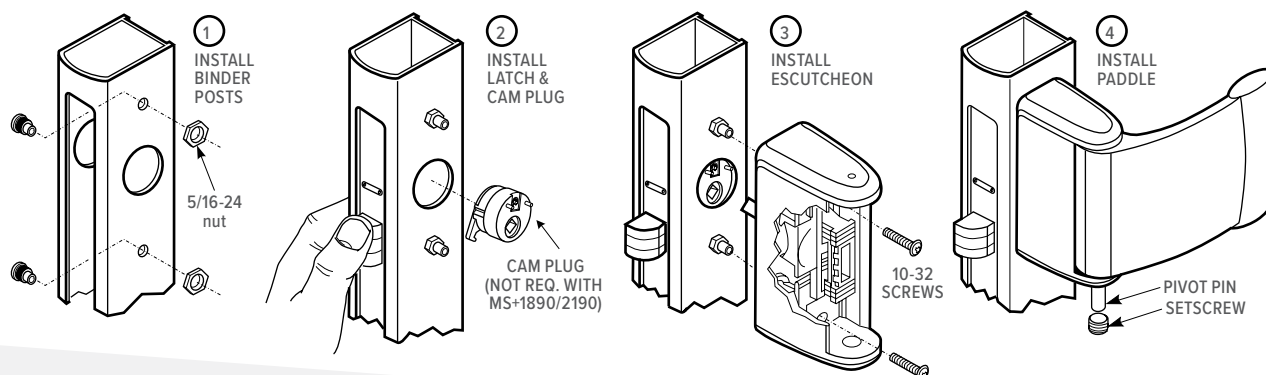
## Dimensions

## Stile Preparation

For 4500/4900 latches, see MS+1890/2190 for different hole pattern





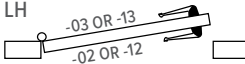
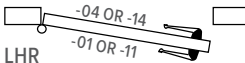
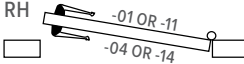
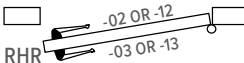


## Installation



## How to Order, Related, & Compatible Products

**4591 Deadlatch Paddle:** Specify quantity and the following information. Order related products separately.

MODEL	OPTIONS*	OPERATION			DOOR THICKNESS		FINISH**		
4591	M	02			-00		-313		
	- Standard Paddle	FIRST DASH FOR LATCH SERIES	OPPERATION	USE	For 4300, 4500, 4900 Series Deadlatches	For MS+1890, 2190	313 Dark Bronze Anodized		
	M Paddle w/ switch only	-01 4300/4500/4900	PULL TO LEFT		Outside of left hand reverse door or inside of right hand	00 1-3/4"	00 1-3/4"	335 Black Anodized	
		-11 MS+1890/2190				01 1-13/16" to 2"	01 1-3/4" to 2-1/4"		
	MA Active paddle w/ switch	-02 4300/4500/4900	PUSH TO LEFT		Outside of left hand door or inside of right hand reverse	02 2-1/4" to 2-1/2"	02 2-5/16" to 2-1/2"	628 Clear Anodized	
		-12 MS+1890/2190				03 2-3/4" to 3"	03 2-9/16" to 2-3/4"		
		-03 4300/4500/4900	PULL TO RIGHT		Outside of right hand reverse door or inside or left hand	04 3-1/4"		US3 Bright bronze	
		-13 MS+1890/2190							
		-04 4300/4500/4900	PUSH TO RIGHT					Outside of right hand door or inside of left hand reverse	US26D Satin Chrome
		-14 MS+1890/2190							
	<div><div>LH<div></div></div><div>LHR<div></div></div></div>								
<div><div>RH<div></div></div><div>RHR<div></div></div></div>									

\*M and MA options available on push paddles only, not pull paddles. \*\*Finish applied to paddle assembly only, not escutcheon.

**RELATED** When purchasing this product, please consider the following related products, available separately:

### COMPATIBLE

DEADLOCKS	DEADLATCHES
MS+1890 Deadlock/Latch, 2190 Series Interconnected Deadbolt/Deadlatch	4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN Series Deadlatches.

#### ACCESSORIES

91-0914 Monitor Switch Kit



# 4600

## Heavy Duty Designer Deadlatch Handles

The 4600 Heavy Duty Designer Deadlatch Handles are designed to operate Adams Rite deadlatches and retro-fit onto the 2190 Interconnected Deadbolt/Deadlatch. Offered in a wide range of lever designs and architectural finishes to match the clean lines of a narrow stile door.

### Function

Designed to operate 4300, 4500, and 4900 Series Deadlatches with either an upward or downward motion. 4600 Deadlatch Handles can be retrofitted in the field onto the 2190/2290 Interconnected Deadbolt/Deadlatch. Shipped handed, but easily reconfigured to accommodate either door swing. MV and MN handle types cannot be re-handed. The patented adjustable drive mechanism allows the escutcheon to be set back from the door edge at the time of installation to provide additional clearance. Monitoring switch optional to provide signal when lever is actuated.



### Features

#### Handle

Available in standard and designer series levers to blend with existing architecture or to create a new design statement. Made from solid cast stainless, brass, or bronze, and finished to match any design requirement.

Standard series lever styles (-01, -02, -03) are designed to return within 1/2" [12.7 mm] of the door face, often required by code.

Please verify local code requirements to ensure compliance.

#### Escutcheons

Mounted base is secured by hidden screws and has two large helical compression springs. A 1/4" [6.4 mm] square heat-treated spindle is part of escutcheon assembly, which interlocks with the cam plug. Finished to match lever.

#### Cam Plug

Cam plug is required when 4600 handles are used to operate 4300, 4500 or 4900 Series Deadlatches.

Secured to the latch body by cylinder setscrew, the cam plug is tied to the handle escutcheon by integral anti-rotation pins.

Handing easily reversed with push-and-release cam design.

#### Standard Package

Individually packaged with cam plug (as needed), fasteners, and optional equipment specified.

#### Shipping weight

3 lbs [1.36 kg].

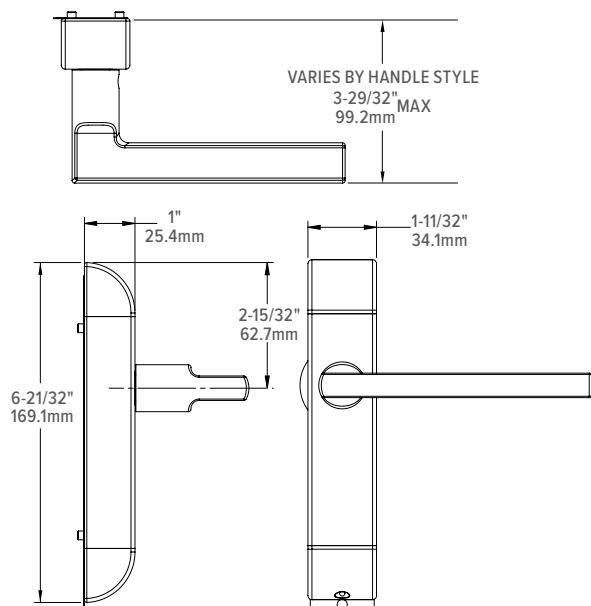
### Options

- Ordered for left or right hand door, but is easily reconfigured in the field to accommodate either door swing.
- Standard handles are for 1-3/4" [44.5 mm] thick doors. Please contact factory for doors up to 3-1/4" [82.6 mm] available by special order. Please use part number DTK-4600 for fixed lever (dummy) kit.
- Please use part number TBK-4600 for through-bolt mounting kit for back-to-back mounting on wood doors.
- Available in choice of US3 (605) Bright brass, US4 (606) Satin brass, 10B powder coat to match Dark Bronze, US32 (629) Bright stainless, or US32D (630) Satin stainless.

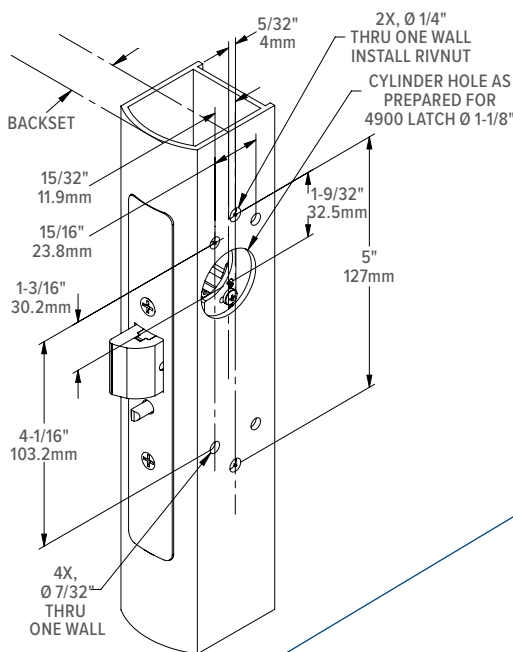
#### Product Note

The 4600M with switch option cannot be used in conjunction with the 4300 Electrified Deadlatch.

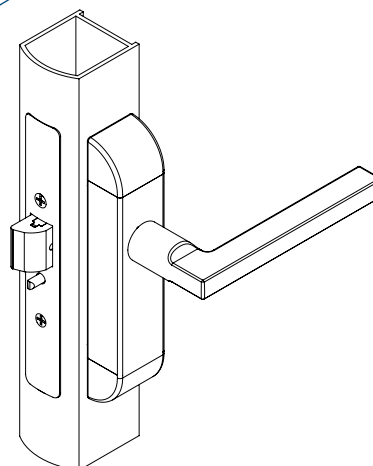
## Dimensions



## Stile Preparation



## Installation



## How to Order, Related & Compatible Products

**4600 Heavy Duty Deadlatch Handles:** Specify quantity and the following information. Order related products separately.

MODEL	REX	HANDLE	HANDING**	DOOR THICKNESS	COMPATIBLE PRODUCTS	FINISH
4600	M	-01	-5	1	1	-32D
	(blank) Standard	<b>STANDARD HANDLES</b>	5 LH or LHR	1 1-3/4" to 1-7/8"	1 2190, 2290 Interconnected Deadbolt/Deadlatch	US3 Bright Brass
	M Electrified Trim	01 Curve	6 RH or RHR	2 2" to 2-1/8"		US4 Satin Brass
		02 Round		3 2-1/4" to 2-3/8"	2 4300, 4500, 4900 Series Deadlatches	10B to match Dark Bronze
		03 Square		4 2-1/2" to 2-5/8"		US32 Bright Stainless
		<b>DESIGNER SERIES</b>		5 2-3/4" to 2-7/8"		US32D Satin Stainless
		MD MJ				
		ME MN* (Handed)				
		MG MV* (Handed)				
		MI MW				

\*Handing must be specified for MN and MV Designer Levers. \*\*Handing - assumes lever on interior of door.

### RELATED

When purchasing this product, please consider the following related products, available separately:

#### ACCESSORIES

REX-4600 Request to Exit, DTK-4600 Fixed Lever (dummy) Kit, TDK-4600-XX Thick Door Kit for doors 2" to 2-7/8", TBK-4600-XX Thru-Bolt Mounting Kit for back-to-back mounting on wood doors.

### COMPATIBLE

#### DEADLATCHES

4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN Series Deadlatches.

# 4000 Series

## MS® Deadlock Strikes

4000 Series MS® Deadlock Strikes add aesthetics and finish to strike cutouts in jambs.

### Function

The majority of Adams Rite MS® deadlocks are installed in aluminum construction where the strike cutout can be simply a slot in the jamb. However, for aesthetic reasons or in the case of the MS4002 for added security, many who specify an MS® deadlock add one of these strikes.

### 4000 Trim Strike

A simple strike plate that can be surface mounted or mortised flush in hollow metal or wood applications.

#### Materials

Made of aluminum. Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized.

### 4001 Box Strike

Similar to the 4000 Strike, but with dust box added. Customarily used only for wood construction where the dust box prevents chips, sawdust, and other debris from entering strike.

#### Materials

Trim plate is aluminum, dust box is steel plated for corrosion resistance. Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized, US3 (605) Bright brass, US26D (626) Satin chrome.

### MS4002

Similar to the 4000 and 4001 strike plates, but backed up by a massive steel doubler designed to prevent the method of forced entry known as “jamb peeling”. Fits within aluminum or other hollow jamb sections with trim face flush, the steel completely hidden.

- Available flat for single doors or radiused for pairs of doors.
- May be used with two-point and three-point MS® deadlocks, including the hookbolt version in sliding doors where hookbolt use dictates door/jamb gap of 1/8" or less.
- MS4002 Armored Strike is unhandled and may be used with RH or LH swinging or sliding doors.

#### Materials

Trim plate is aluminum, reinforcement doubler is steel-plated for corrosion resistance. Available in choice of 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized, US3 (605) Bright brass, US26D (626) Satin chrome.



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## 4003ANSI Strike

Designed for ANSI applications for use with the MS1850SN Deadlock.

### Materials

Trim plate is stainless steel. Available in choice of US26D (626) Satin chrome, powder coat 121 to match 313 Dark bronze anodized.

## 4005 Threshold Strike

Designed for a drop-bolt such as 4015 Threshold Bolt or 4016 Header Bolt in non-metal installations such as wood or concrete.

### Materials

Trim plate is stainless steel. Available in US32D (630) Satin stainless.

## 4006 Floor Strike

Similar to 4001 Box Strike, the 4006 Floor Strike is a trim plate with dust box added for strike slot cut into metal thresholds. Designed for use with the 1830 Bottom Rail Deadlock.

### Materials

Trim plate is stainless steel. Available in choice of US32D (630) Satin stainless, powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, and 130 to match 628 Clear anodized.

## Features

### Standard Package

Individually packaged with machine screws and wood screws.

## Options

- Specify flat or radius shape of trim plate, compatible deadlock, and square or round corners when ordering.

## How to Order & Compatible Products

**4000 Series MS® Deadlock Strikes:** Specify quantity and the following information. Order related products separately.

MODEL	TRIM PLATE SHAPE	COMPATIBLE DEADLOCK	TRIM PLATE CORNERS	FINISH
4001	-0	1	1	-313
4000 Trim Strike	0 Flat	1 All Standard MS® locks with 1-3/8" Bolt Throw	1 Square	313 Dark Bronze Anodized
4001 Box Strike	1 Radius	2 1850A-020 with 3/4" Bolt Throw Only	2 Round	335 Black Anodized
MS4002 Armored Strike		3 All MS-050 "Hookbolt" locks		628 Clear Anodized

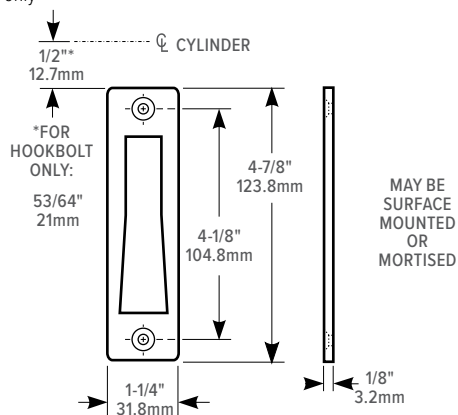
### COMPATIBLE

DEADLOCKS
Most Adams Rite MS® Deadlocks

# Dimensions

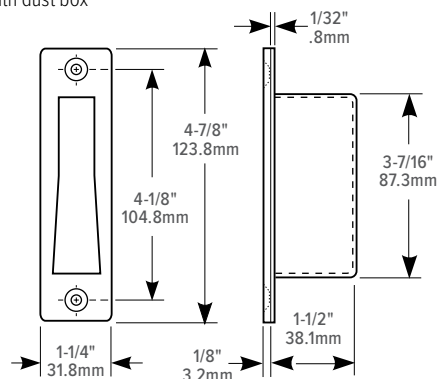
## 4000 Trim Strike

Strike plate only



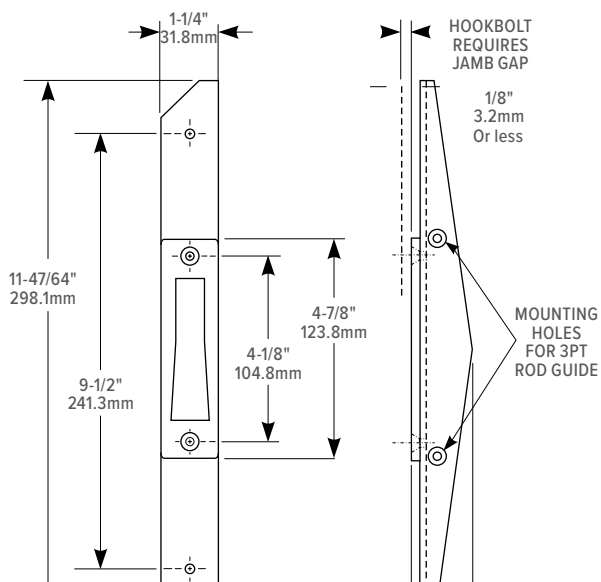
## 4001 Box Strike

Strike plate with dust box



## 4002 Armored Strike

Strike plate with reinforcement

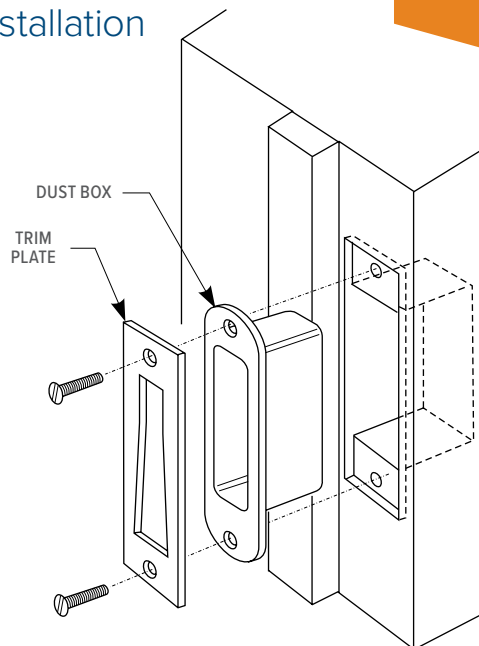


All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

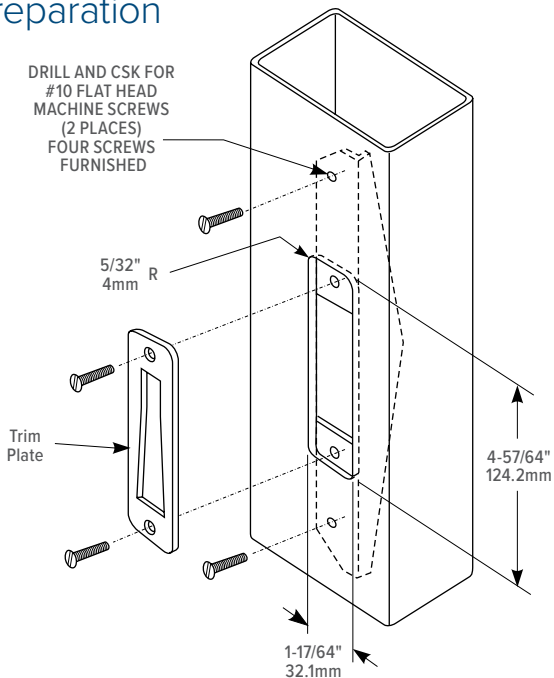
4000  
Series MS®  
Deadlock  
Strikes

167  
CYLINDERS &  
ACCESSORIES

## Mortise Jamb Installation



## Hollow Jamb Preparation







# 4015

## Threshold Bolt

Security for pairs of doors with single key turn is possible with the 4015 Threshold Bolt. The two-point locking solution secures the entire double door entrance when working in conjunction with an MS® Deadlock.

### Function

Adding the 4015 Threshold Bolt to a pivoted bolt MS® deadlock provides Maximum Security for pairs of doors with the turn of a single key. Simultaneously dropping a stainless steel hexbolt into the threshold and pivoting the massive MS® bolt into the mating door's stile, the two-point locking solution secures the entire entrance. The 4015 Threshold Bolt is harnessed to the rear of the pivoted bolt. It may be added to any basic MS1850S, MS1850SN, MS1950 Series deadlock.

Both the 4015 Threshold Bolt and the 4016 Header Bolt may be added to a pivoted bolt MS® deadlock to provide Maximum Security for pairs of doors by the turn of a single key. Simultaneously extending the stainless steel hexbolts into the threshold and header and pivoting the massive MS® bolt into the mating door's stile, thereby providing a three-point locking solution.

### Operation

360° turn of key or thumbturn in basic MS® deadlock throws counterbalanced bolt into opposite door and drops bolt into threshold. Key can be removed only when bolts are in a positively locked or unlocked position.



Lock available separately

### Features

#### Cylinder Height

Standard threshold bolt rod is sufficient for cylinder height up to 53-7/16" [1357.3 mm]. It is fully threaded and can be cut off for low cylinder heights. Please contact factory for rods pre-cut to specific cylinder heights, available by special order for high volume applications.

#### Adjustment

Exact adjustment of threaded rod to cylinder heights is locked in place by hexagonal threshold bolt.

#### Strike

For drop-bolt, a 1/2" [12.7 mm] diameter hole in metal threshold is suitable. For non-metal installation, 4005 Strike is available separately.

#### Threshold Bolt

Hexagonal 3/8" [9.5 mm] flat to flat. Made of stainless steel.

#### Standard Package

Packed separately with bolt guide, screws, and attachment pin.

#### Shipping Weight

1 lb [0.45 kg].

### Options

- For "universal" application, specify 4015-18-1B with fully threaded rod for cut off to any cylinder heights below 53" [1346.2 mm]. Please contact factory for cylinder height greater than 53" [1346.2 mm] to maximum 60" [1524mm] or to specify rods pre-cut to specific cylinder heights available by special order for high volume applications.

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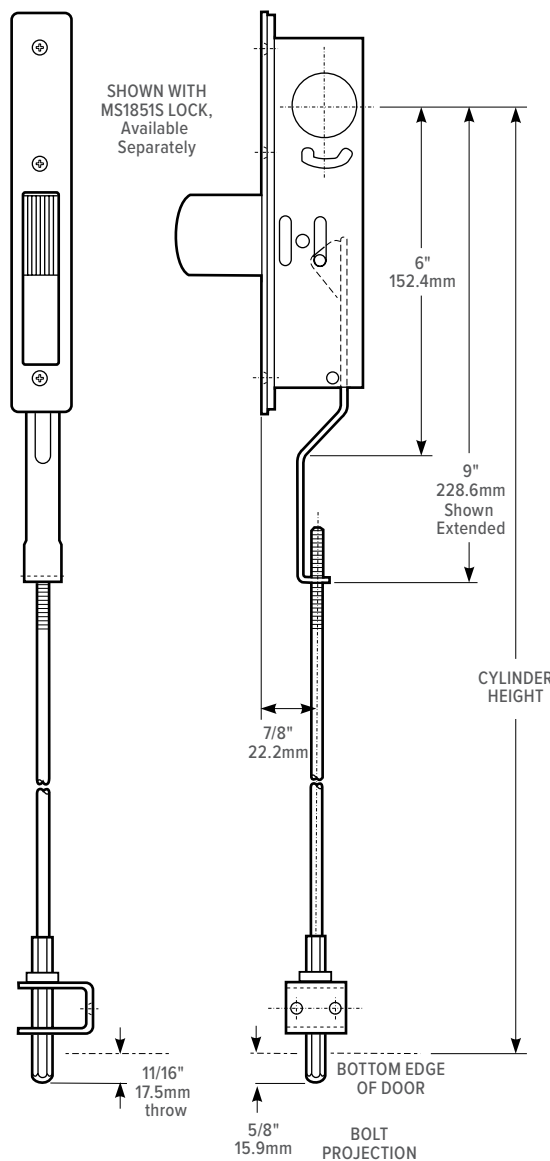
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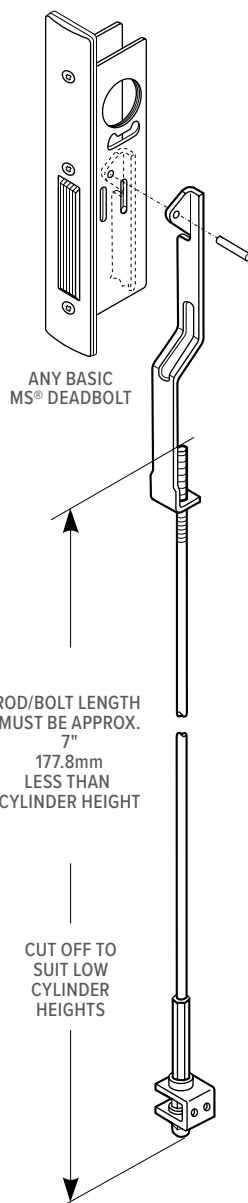


## Dimensions



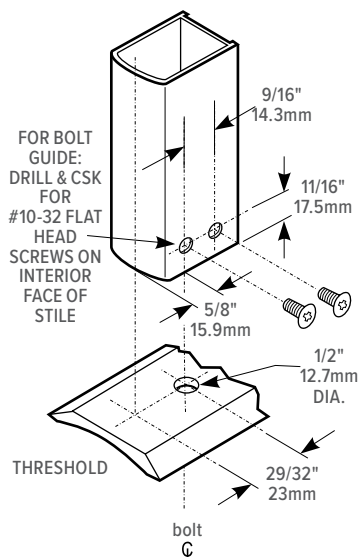
## Installation

Install adaptor arm in lock from rear with bolt retracted as shown. Drive pin through slots in lock side plates passing through hole in the adaptor arm.



## Stile Preparation

See basic MS® Deadlocks MS1850S, MS1850SN, MS1950, MS1950-050



## How to Order, Related & Compatible Products

**4015 Threshold Bolt:** Specify quantity and the following information. Order related products separately.

MODEL	ADD DASH NUMBER FOR "UNIVERSAL SIZE"	PACKAGING
4015	-18	-IB
		IB Individually Boxed

Please specify cylinder height if ordering in volume for a specific cylinder height.

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES
4016 Header Bolt, 4085 Header Bolt

### COMPATIBLE

DEADLOCKS	ACCESSORIES
MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks	4005 Strike

# 4016

## Header Bolt

Security for pairs of doors with single key turn is possible with the 4016 Header Bolt. The two-point locking solution secures the entire double door entrance when working in conjunction with an MS® Deadlock.

### Function

Adding the 4016 Header Bolt to a pivoted bolt MS® deadlock provides Maximum Security for pairs of doors with the turn of a single key. Simultaneously extending the stainless steel hexbolts into the header and pivoting the massive MS® bolt into the mating door's stile, the two-point locking solution secures the entire entrance. The 4016 Header Bolt can be added to any basic MS1850S, MS1850SN, MS1950 Series deadlock or for two-points top and bottom use with 1870/1870HM Cylinder-Operated Flushbolt. Not applicable to 7/8" backset locks.

Both the 4016 Header Bolt and the 4015 Threshold Bolt may be added to a pivoted bolt MS® deadlock to provide Maximum Security for pairs of doors by the turn of a single key. Simultaneously extending the stainless steel hexbolts into the header and threshold and pivoting the massive MS® bolt into the mating door's stile, thereby providing a three-point locking solution.

### Operation

360° turn of key or thumbturn in basic MS® deadlock throws counterbalanced bolt into opposite door and hexagonal bolt into header. Key can be removed only when bolts are in a positively locked or unlocked position.



Lock available separately



## Features

#### Door Height

Select 7' [2133.6 mm] or 10' [3048 mm] door height. The standard version is designed for 7' [2133.6 mm] door height, with cylinder height as low as 35" [889 mm].

#### Header Bolt

Hexagonal 3/8" [9.5 mm] flat to flat. Made of stainless steel.

#### Adjustment

Exact adjustment of threaded rod to door height is locked in place by hexagonal header bolt.

#### Strike

For header bolt, a 1/2" [12.7 mm] diameter hole in metal frame is suitable. For non-metal installation, 4005 Strike is available separately.

#### Standard Package

Packed separately with bolt guide, screws, and attachment pin.

#### Shipping Weight

1 lb [0.45 kg].

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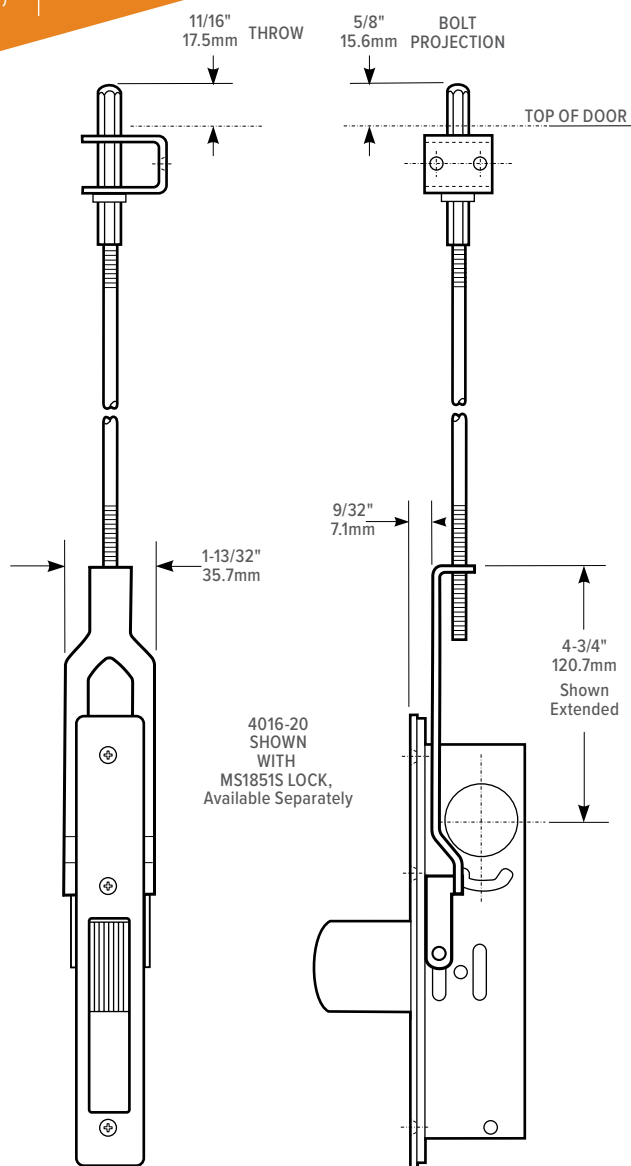
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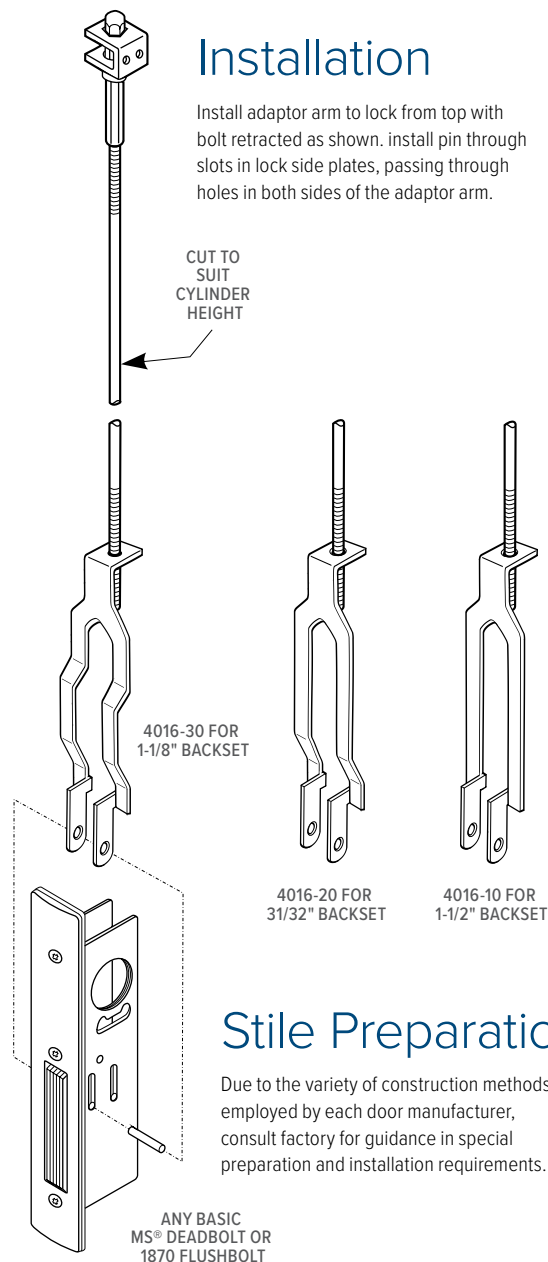
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## Dimensions



## Installation

Install adaptor arm to lock from top with bolt retracted as shown. install pin through slots in lock side plates, passing through holes in both sides of the adaptor arm.



## Stile Preparation

Due to the variety of construction methods employed by each door manufacturer, consult factory for guidance in special preparation and installation requirements.

## How to Order, Related & Compatible Products

**4016 Header Bolt** Specify quantity and the following information. Order related products separately.

MODEL	LOCK BACKSET	DOOR HEIGHT
4016	-30	-01
	10 1-1/2"	01 7' Door
	20 31/32"	02 10' Door
	30 1-1/8"	

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES
4015 Threshold Bolt, 4085 Header Bolt

### COMPATIBLE

DEADLOCKS	FLUSHBOLTS	ACCESSORIES
MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks Not applicable to 7/8" backset locks.	1870, 1870HM Series Flushlocks	4005 Strike

# 4085

## Header Bolt (Pairs of Doors Only)

4085 Header Bolt provides top-of-door third locking point for pairs of doors when working in conjunction with an MS® pivoted bolt deadlock and 4015 Threshold Bolt in the active leaf.

### Function

Designed to add a top-of-door third locking point for pairs of doors when used in conjunction with a pivoted bolt MS® deadlock and 4015 Threshold Bolt in the active leaf. The 4085 Header Bolt is mounted in the inactive leaf. This additional bolt, triggered by the pivoted MS® bolt, expands in a scissor-like action to center itself in its strike as it rises. This action saves the key holder from the difficulty of lining up the doors with three separate strikes, even if doors are misaligned due to faulty installation or settling. The 4085 Header Bolt can be added to any basic MS1850S, MS1850SN, MS1950 Series deadlock with the 4015 Threshold Bolt for a Maximum Security three-point locking solution.

### Operation

360° turn of key or thumbturn in basic MS® deadlock throws counterbalanced bolt into opposite door, kicking positioner bolt into header strike. Positioner bolt may be manually thrown before closing active leaf to reduce effort on key-bow. Key can be removed only when bolts are in a positively locked or unlocked position.



## Features

### Header Bolt

1/2" x 1-1/2" [12.7 mm x 38.1 mm]  
expanding bolt with 5/8" [15.9 mm]  
throw. Housed in 1-1/2" x 2-3/4" x 5/8"  
[38.1 mm x 69.9 mm x 15.9 mm] case.

### Adjustment

Minor adjustment of rod length is  
accomplished by turning nylon rod end.

### Standard Package

Packed separately with rod guide,  
screws, and header strike.

### Shipping Weight

1 lb [0.45 kg].

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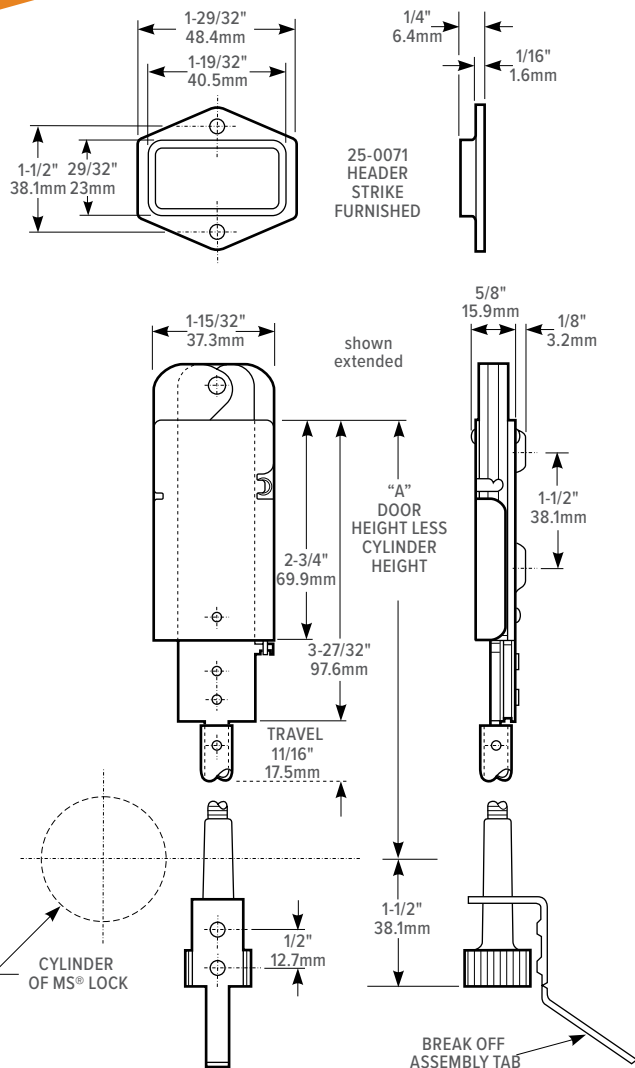
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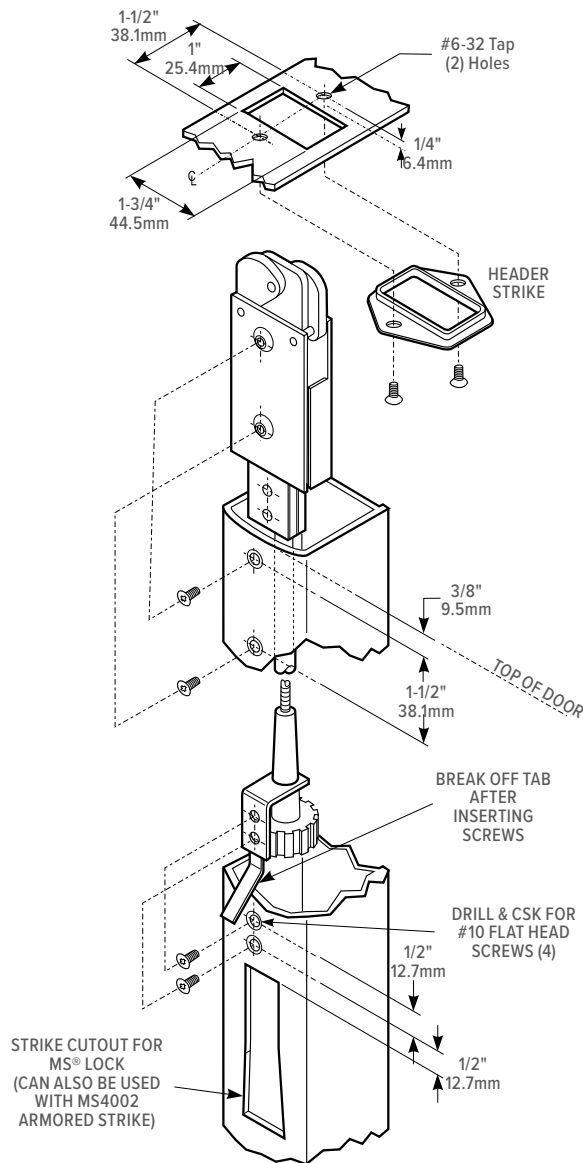
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## Dimensions



## Header Preparation for Strike



## How to Order, Related & Compatible Products

**4085 Header Bolt (Pairs of Doors Only)** Specify quantity and the following information. Order related products separately.

MODEL	DIMENSION 'A'	PACKAGING
4085	-02	-IB
	01 30" - 52"	IB Individually Boxed
	02 52" - 67"	
	03 67" - 79"	
	04 79" - 92"	

### Example

DOOR HEIGHT		CYLINDER HEIGHT		A
96"	-	40"	=	56"

### Reference

7' Door is 84"	9' Door is 108"
8' Door is 96"	10' Door is 120"

### RELATED

When purchasing this product, please consider the following related products, available separately:

#### ACCESSORIES

4015 Threshold Bolt

### COMPATIBLE

#### DEADLOCKS

MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1950, MS1950-050 Series Deadlocks  
Not applicable to 7/8" backset locks.

# 4089

## Exit Indicator

4089 Exit Indicator provides exit door notification for various Adams Rite deadlocks.

### Function

Provides unmistakable notification of lock status. Under many local building safety codes this allows the use of a security deadlock instead of exit devices, in certain occupancies. It includes two permanent adhesive header signs: "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS." (that wording is according to Uniform Building Code). The second sign for NFPA and other local codes reads: "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED." Please consult local Authority Having Jurisdiction (AHJ) for more information.



### Features

#### Indicator

Words "LOCKED" in red letters or "OPEN" in green letters appear on white background when bolt is thrown or retracted respectively. Indicator is driven by lock bolt itself.

#### Materials

Indicator escutcheon is zinc alloy. Available in choice of powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, and 130 to match 628 Clear anodized. Header sign is clear aluminum match with black letters.

#### Shipping weight

1/2 lb [0.23 kg].

### Options

- Standard unit fits 1-3/4" [44.5 mm] door. Specify for thicker doors up to 2-1/2" [63.5 mm].

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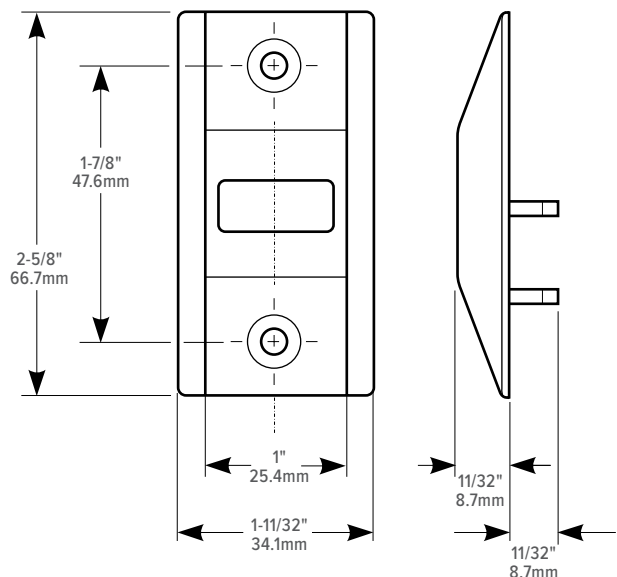
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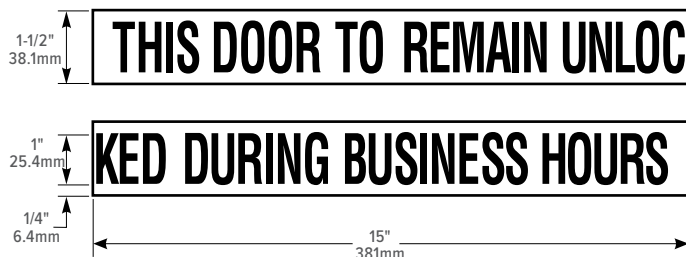
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## Dimensions



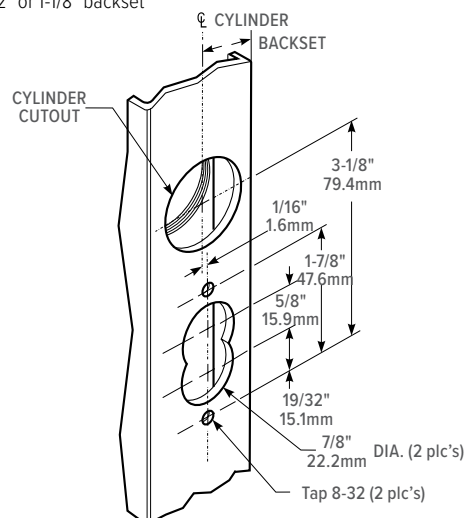
HEADER SIGN - IN TWO PIECES\*



\*This sign correct under Uniform Building Code. Also includes NFPA wording "This Door to remain unlocked when the building is occupied".

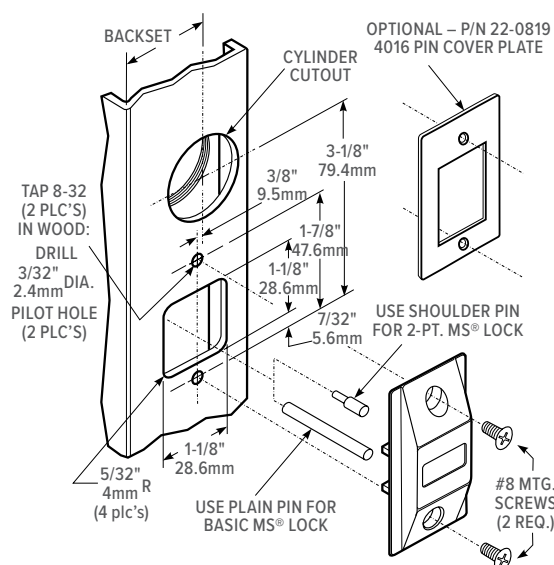
## Aluminium Stile Preparation

For 31/32" or 1-1/8" backset



## Wood & Hollow Metal Stile Preparation

For 1-1/2" backset



## How to Order, Related & Compatible Products

**4089 Exit Indicator:** Specify quantity and the following information. Order related products separately.

MODEL	OPTIONS	FINISH
4089	-01	-130
	00 Standard 1-3/4" Door	119 To match 335 Black Anodized
	01 For Inverted Lock	121 To match 313 Dark Bronze Anodized
	20 For Doors up to 2-1/2"	130 To match 628 Clear Anodized

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES
91-0912 Adapter Plate, 22-0819 Cover Plate, 20-0255-IP Header Sign, 20-0256-IP IBC Header Sign

### COMPATIBLE

DEADLOCKS	FLUSHBOLTS
MS1837, MS1850S, MS1850S-050, SCH1850S, MS1850SN, MS1850SN-050, SCH1850SN, MS1950, MS1950-050, MS+1890 Series Deadlocks	1870, 1870HM, 1877 Series Flushlocks



# 4800

## Series Strikes

4800 Series Strikes add aesthetics and finish to strike cutouts in metal or wood jambs.

### 4800

With vertical adjustment to accommodate door/jamb misalignment and a shim system for horizontal positioning to match various jamb bumper designs, the 4800 Series Strikes can be fit to nearly any sliding door using a mortised MS1847 Deadlock/Deadlatch.

#### Materials

Steel, heat treated. Shims are ABS plastic. Available in choice of Zinc (603) finish, US32D (630) Satin Stainless.

### MS4804

This reinforcing strike provides strength equal to the strength of the stainless steel bolt of the MS1847 Deadlock/Deadlatch: tested to 1000 lbs [453.59 kg] of force. This strength by far exceeds the standards of the Architectural Aluminum Manufacturers Association as well as the strictest current municipal security ordinance.

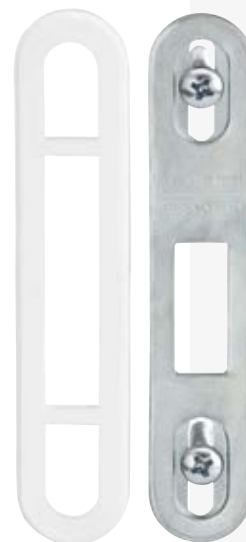
#### Faceplate

Measures 1/16" x 3/4" x 3-3/8" [1.6 mm x 19.1 mm x 85.7 mm]. Steel, plated for corrosion resistance. MS4804-10 available in US32D (630) Satin Stainless.

#### Reinforcing Plate

Measures 1/16" x 1/2" x 3-3/8" [1.6 mm x 12.7 mm x 85.7 mm]. Steel, plated for corrosion resistance. Tapped for furnished #10-32 flathead screws.

4801



4804



## Features

#### Standard Package

All strikes are individually packaged with screws and shim if required.

**4801 Strikes** are furnished with sheet metal screws for metal jamb installation.

**4802 Strikes** are furnished with machine screws and tee nuts which are installed on the back side of the jamb to provide the strongest possible anchorage in wood.

#### Shipping Weight

1/2 lb [0.23 kg]

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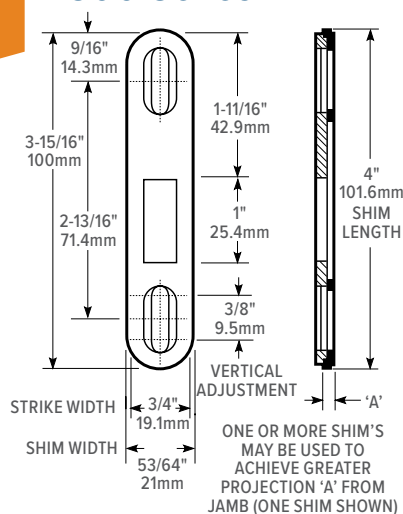
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## Dimensions

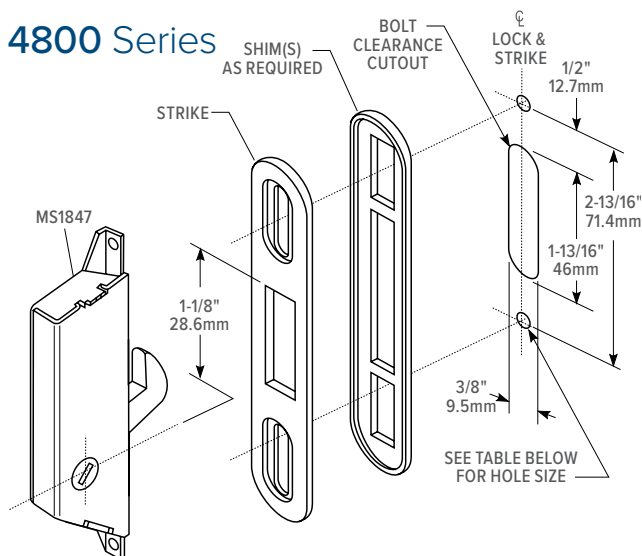
## 4800 Series



APPLICATION	PART NO.	SHIMS	DIMENSION 'A'
Metal jambs (furnished with two #8 x 1 sheet metal screws)	4801	NONE	0
	4801-01	1	3/32" (2.4mm)
	4801-02	2	3/16" (4.8mm)
	4801-03	3	9/32" (7.1mm)
Wood jambs (furnished with two #8-32 x 7/8" machine screws and two tee nuts)	4802	NONE	0
	4802-01	1	3/32" (2.4mm)
	4802-02	2	3/16" (4.8mm)
	4802-03	3	9/32" (7.1mm)

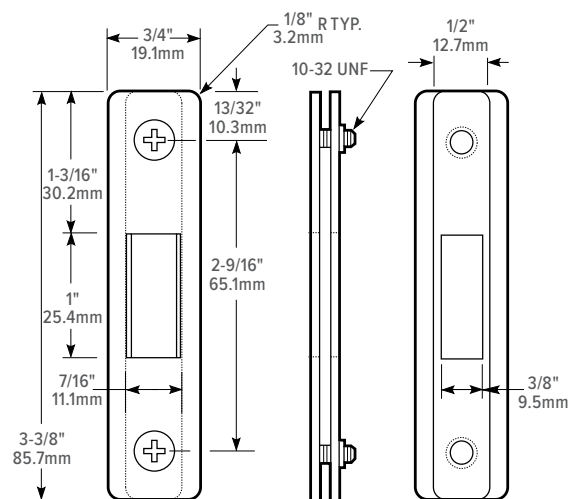
## Jamb Preparation

## 4800 Series

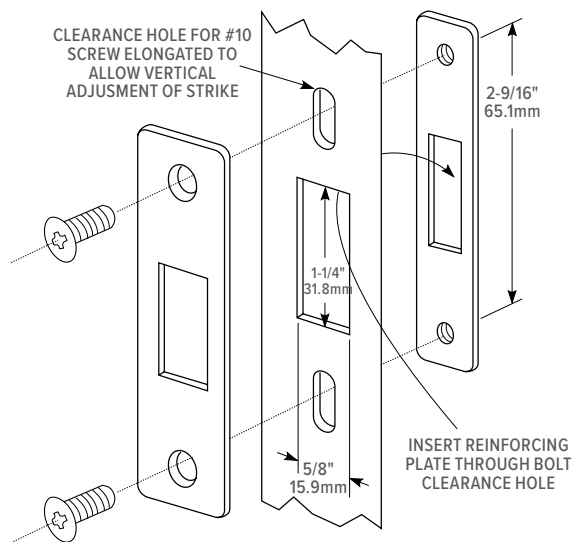


	HOLE SIZE	
<b>Metal jamb application</b> <b>4801 series</b>	1/8" 3.2mm	(No. 31 DRILL)
<b>Wood jamb application</b> <b>4802 series</b>	7/32" 5.6mm	(No. 3 DRILL)

## MS4804



## MS4804



## How to Order & Compatible Products

**4800, MS4804 Strikes:** Specify quantity and the following information. Order related products separately.

MODEL	TYPE OF JAMB	DIMENSION 'A'	FINISH
480	1	-02	-630
	1 Metal	01 3/32" (2.4mm)	603 Zinc Plated Steel
	2 Wood	02 3/16" (4.8mm)	630 Satin Stainless
		03 9/32" (7.1mm)	

## Compatible

## DEADLOCKS

MS1847 Deadlock/Deadlatch

# 4901, 4902

## Deadlatch Strikes

4901, 4902 Deadlatch Strikes add aesthetics and finish to strike cutouts in jambs.

### Function

Designed for use in conjunction with 4300, 4500, 4700, and 4900 Series Deadlatches, these strikes offer a choice of mounting methods. A backup mounting plate included with the 4901 and 4902 allows installation flush in a hollow section jamb. Accommodates the 1/2" [12.7 mm] wide latchbolt of 4500/4700 Series Deadlatches and 5/8" [15.9 mm] wide latchbolt of 4900 Series Deadlatches by removing snap-in nylon insert.



### Features

#### 4901

##### -01

Flush mount flat strike. Standard slat strike includes molded black plastic dust box and closure of the unused lower strike opening, with steel mounting plate. Long face is designed to span strike area of MS® deadlocks with which the deadlatch is interchangeable.

##### -02

Flush mount radius strike. Same as 4901-01, except with radiused strike plate, for nose of opposite door when latching pairs.

#### 4902

##### -01

Short box flat strike. Standard flat strike furnished with the 4900 Series Heavy Duty Deadlatches. Includes molded black plastic dust box and steel mounting plate. Short face design.

##### -02

Short box radius strike. Same as 4902-01, except with radiused strike plate, for nose of opposite door when latching pairs.

#### Materials

Strike plate is stainless steel. All strikes are unhandled, suitable for right or left hand doors.

#### Shipping Weight

1/2 lb [0.23 kg]

### Options

- Use 4506-02 ANSI strike for wood or steel jambs.

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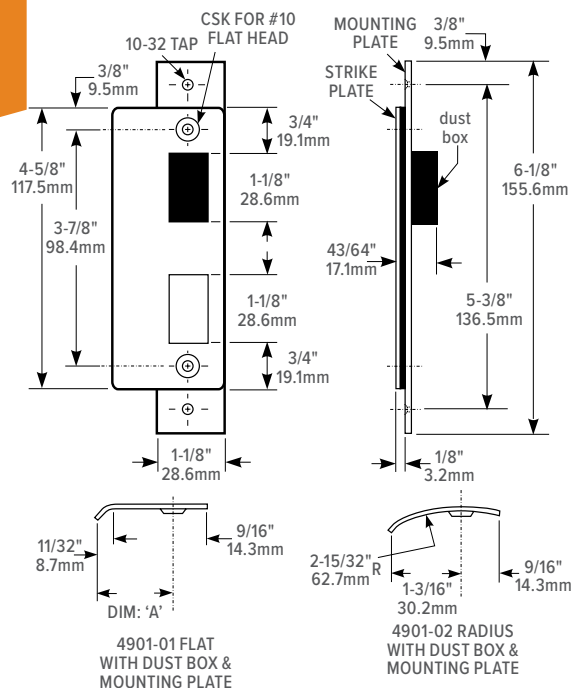
[adamsrite.com](http://adamsrite.com)

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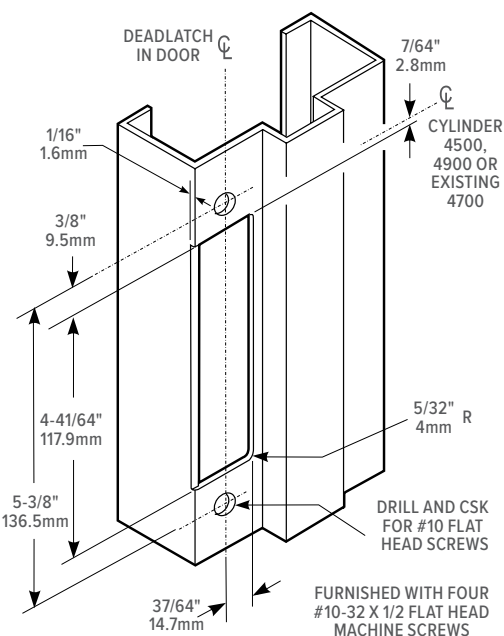
All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

## Dimensions

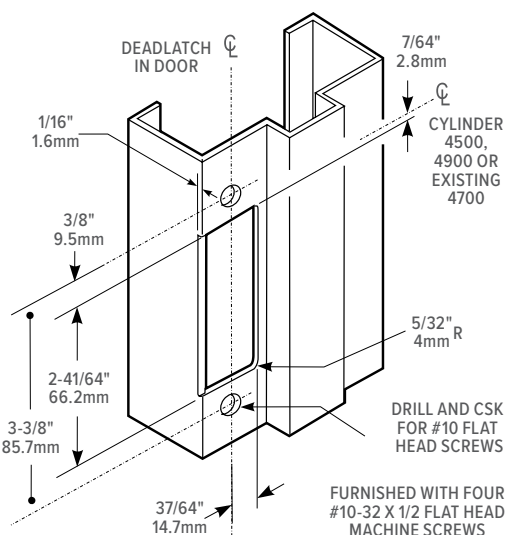
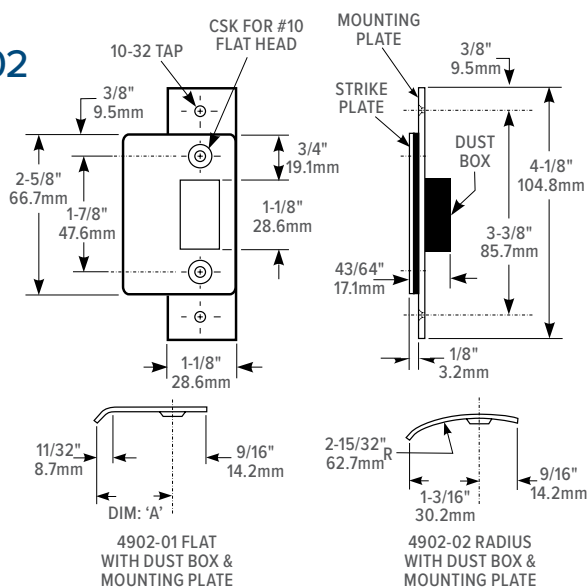
4901



## Installation



4902



## How to Order, Related & Compatible Products

**4901, 4902 Deadlatch Strikes** Specify quantity and the following information. Order related products separately.

MODEL	STRIKE TYPE	FACEPLATE SHAPE					FINISH
490	1	-02					630
		STANDARD LIP	LONG LIP FOR CENTER HUNG DOOR	DIM. 'A'	LONG LIP FOR CENTER HUNG DOOR	DIM. 'A'	119 To match 335 Black Anodized
	1 Long	01 Flat	03 2-1/4" Wide Jamb	1-1/8	13 3-1/2" Wide Jamb	1-3/4	
	2 Short	02 Radius	05 2-1/2" Wide Jamb	1-1/4	15 3-3/4" Wide Jamb	1-7/8	121 To match 313 Dark Bronze Anodized
			07 2-3/4" Wide Jamb	1-3/8	17 4" Wide Jamb	2	
			09 3" Wide Jamb	1-1/2	19 4-1/4" Wide Jamb	2-1/8	630 Satin Stainless Steel
			11 3-1/4" Wide Jamb	1-5/8	21 4-1/2" Wide Jamb	2-1/4	

## RELATED

When purchasing this product, please consider the following related products, available separately:

Extended Lip Strikes

**COMPATIBLE**

DEADLATCHES	EXIT DEVICES
4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN (4506-02 only) Series Deadlatches.	8300 (4506-02), 8400 Mortise Exit Device

# 4024, 4025, 4026

## Cylinder Pulls

4024, 4025, 4026 Cylinder Pulls are designed to operate Adams Rite MS1847 Deadlock/Deadlatch and 5017 Wood Door Deadlock/Deadlatch.

### 4024

The five pin tumbler 4024 Cylinder Pull is smaller than the 4025 Cylinder Pull and it is symmetrical, designed for mounting door pull or other trim plate. Can be mounted directly on stile where lock mechanism is mounted on inside surface of stile rather than mortised.

### 4025

The five pin tumbler 4025 Cylinder Pull has mounting holes spaced to allow clearance around MS1847 Deadlock/Deadlatch mechanism for long through-the-stile mounting screws.

### 4026

The five pin tumbler 4026 Cylinder Pull is designed for use with 5017 Wood Door Deadlock/Deadlatch for wood door applications.

## Function

Designed for use with Adams Rite MS1847 Deadlock/Deadlatch and 5017 Wood Door Deadlock/Deadlatch, these surface mounted pulls allow a sliding door to be keyed-in with other doors which have cylindrical or mortise locks.



4024



4025



## Features

### Trim Finish

Zinc alloy housing. Brass cylinders.

### Cylinder Both Sides

A pair of 4025 Cylinder Pulls can be mounted opposite each other with long machine screws. Security is maintained since each side offers access to only one screwhead. Both screws would have to be removed to operate the lock without its key. Specify 4025 CYLxCYL set.

## Options

### • Cylinder Make

Pulls available with Schlage or Weiser Keyway cylinders.

- Available in choice of powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, and 130 to match 628 Clear anodized.

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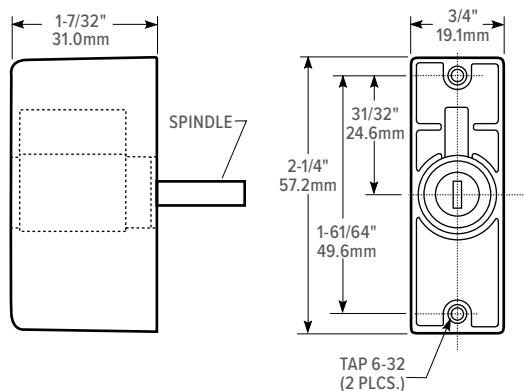
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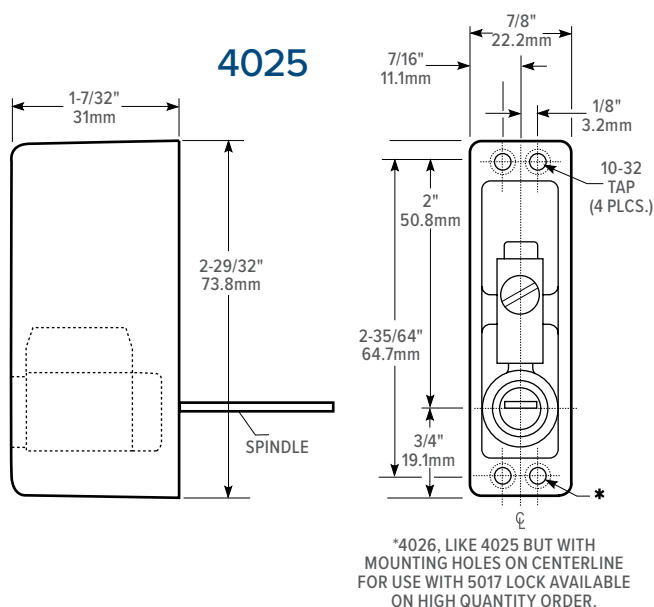
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## Dimensions

### 4024

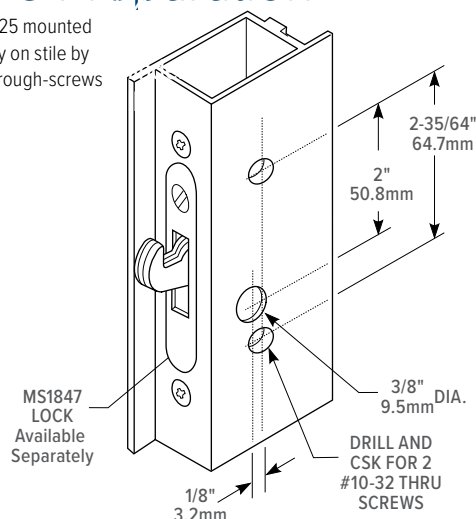


### 4025

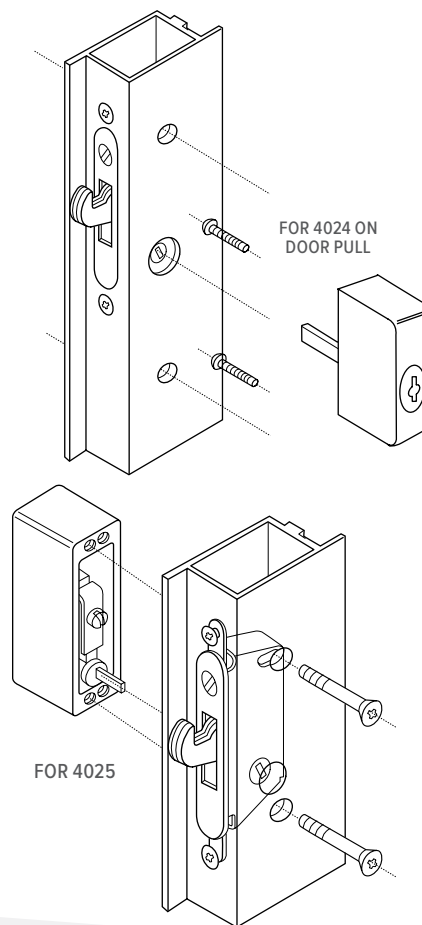


## Stile Preparation

For 4025 mounted directly on stile by two through-screws



## Installation



## How to Order & Compatible Products

4024, 4025, 4026 Cylinder Pulls: Specify quantity and the following information. Order related products separately.

MODEL	PULL NO./CYLINDER INCLUDED	KEYING	FINISH
4024	-00	-01	-130
4024 Trim Plate Mounted	00 Schlage "C" Keyway	01 Keyed different	119 To match 335 Black Anodized
4025 Stile Mounted with through-screws	06 Weiser Keyway	02 Keyed alike in pairs	121 To match 313 Dark Bronze Anodized
4026 For Wood Applications			130 To match 628 Clear Anodized

See current price list to order 4025 cyl x cyl, cylinder both sides pullset.

### COMPATIBLE

DEADLOCKS	
MS1847 Deadlock	5017 Wood Door Deadlock (4026 only)

# 4036 Mortise Cylinder

# 4066 Thumbturn

The 4036 Mortise Cylinder provides five-pin security with most Adams Rite deadlocks or deadlatches. The 4066 Thumbturn operates deadlocks or deadlatches without a key.

## Function

### 4036

A standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter cylinder with five-pin tumbler security. Designed to operate any Adams Rite deadlock or deadlatch requiring a mortise cylinder. Close tolerance manufacturing achieve set screw grooves and cam geometry that are true on their respective center lines. This ensures proper mating and operation with the locking or latching mechanism. Select cam to suit particular Adams Rite deadlock or deadlatch.

### 4066

To operate deadlock or deadlatch without key. Interchanges with standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder. Cams are available to suit the particular Adams Rite deadlock or deadlatch. See next page for cam specifications.



4036



4066

## Features

### Shell

**4036:** Aluminum with 313 Dark bronze anodized, 335 Black anodized, 628 Clear anodized finish. Plug is US26 (625) Bright chrome.

**4066:** Choice of three finishes: 130 to match 628 Clear anodized, 313 Dark bronze anodized, 335 Black anodized.

### Trim Ring

Furnished. 1/4" [6.4 mm] thick, suitable for 1-3/4" [44.5 mm] thick doors. Available by special order for other door thicknesses.

### Keying

All cylinders furnished with two keys per cylinder. Available in keyed different (KD), or keyed alike pairs (KA2). Keyed alike 50 are available by special order in quantity of 50 cylinders only. Please contact factory for ordering information.

### Standard Package

Individually packed with trim ring. 4036 furnished with keys.

### Shipping Weight

1/2 lb [0.23kg]

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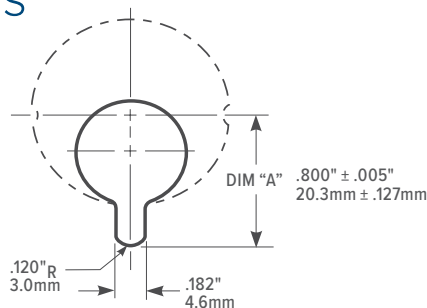
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## Dimensions

DIMENSIONS OF CAM TO OPERATE:

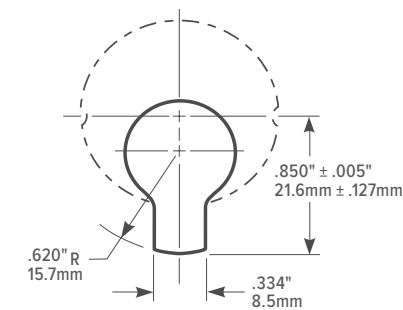


DEADLOCK SERIES	1830	THIS CAM AVAILABLE FROM: Adams Rite Arrow ASSA Best Corbin Russwin Dorma Falcon KABA-Ilco Medeco Sargent Schlage Weiser Yale
	MS1837	
	MS1850S	
	MS1850SN	
	MS1861	
	1875	
	MS +1890	
	MS1950	
	2190	
	2290	
DEADLATCH SERIES	4300	
	4510	
	4530	
	4781	
	4900	
EXIT DEVICES	4920AN	
	8300	
	8400	
FLUSHLOCKS	8650	
	1870	
	1870HM	
TRIM	1877	
	3080	
	3090	

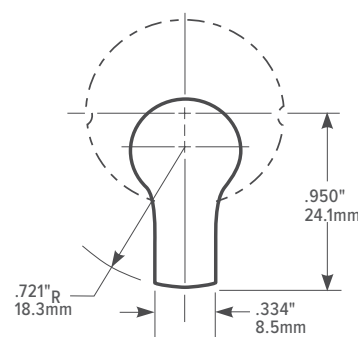
## Cylinder by Others

Adams Rite deadlocks and deadlatches are designed to accept standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinders of all popular makes.

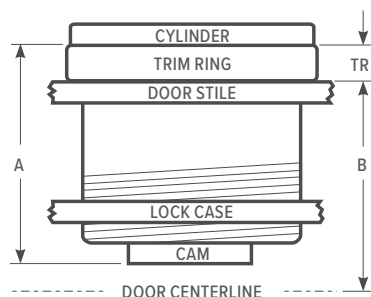
This means that the entrance can be keyed to match the system used throughout the building on other types of doors. Care must be taken, however, to specify the proper cam for each type of lock, as these are not generally interchangeable. The cam shapes shown are available from the listed cylinder manufacturers and will be supplied by them with the cylinder when specified or available separately. Because of variations in the attachment of cams to cylinders and other construction differences, it is advisable to NOT attempt using one manufacturer's cylinder with another manufacturer's cam.



DIMENSIONS OF CAM TO OPERATE:  
4070 SERIES DEADBOLT  
This cam available from above cylinder manufacturers on special order



DIMENSIONS OF CAM TO OPERATE:  
2331 DEADBOLT  
This cam available from all cylinder manufacturers (standard cam)



### CYLINDER TRIM RING FOR NARROW STILES

Narrow stile doors require a trim ring to fill the gap remaining between the cylinder shoulder and stile when a standard mortise cylinder is used. If the security of the hardened steel Adams Rite MS4043 Cylinder Guard is not required, this ring may be simply a length of 1.171 I.D. tubing. Its length varies depending on door thickness or cylinder make and number of pins. The specific length required can be quickly determined by the following formula:

FOR MS® LOCKS:	FOR 4500 SERIES LATCHES
$TR^* = A + .125 - B$	$TR^* = A + .132 - B$
*TOLERANCE: ± .060	
FOR 2190 $TR^* = A - B$	

"TR" is trim ring length.  
"A" is cylinder height (less shoulder but including cam).  
"B" is one-half of door thickness.

## How to Order & Compatible Products

**4036 Mortise Cylinder:** Specify quantity and the following information. Order related products separately.

MODEL	LOCK TYPE	KEY OPTIONS*	FINISH
4036	-01	-01	-628
	01 For MS® Lock, 4900 Deadlatches, 2190	01 Keyed different	313 Dark Bronze Anodized
	02 For 4070 Deadlock	02 Keyed alike in pairs	335 Black Anodized
	03 For 2331 Deadlock		628 Clear Anodized

\* Keyed alike 50 are available by special order in quantity of 50 cylinders only. Please contact factory for ordering information.

**4066 Thumbturn:** Specify quantity and the following information. Order related products separately.

MODEL	LOCK TYPE	FINISH
4066	-01	-130
	01 For MS® Lock, 4900 Deadlatches	130 To match 628 Clear Anodized
	02 For 4070 Deadlock	313 Dark Bronze Anodized
	03 For 2331 Deadlock	335 Black Anodized

### COMPATIBLE

DEADLOCKS	DEADLATCHES	FLUSHBOLTS	EXIT DEVICES	TRIM
1830, MS1837, MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1861, 1875, MS+1890, MS1950, MS1950-050, 2190, 2290 Series Deadlocks	4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN Series Deadlatches	1870, 1870HM, 1877 Series Flushlocks, 4781 Flushlock with 8650 Cylinder Escutcheon	8300, 8400 Mortise Exit Devices, 8500, 8600 CVR Exit Devices w/8650 Cylinder Escutcheon	3080, 3080E Series Entry Trim, 3090, 3090P, 3090C, A100 Series Keyless Entry

# MS4043

## Cylinder Guard

MS4043 Cylinder Guard is a hardened-steel ring to protect cylinder from vandalism.

### Function

The standard mortise cylinder is made of brass. It is literally a soft spot in narrow stile door security. Using special pliers, a pipe wrench or other leverage device, a burglar can tear the cylinder out of the door, leaving an opening through which the deadlock may be operated.

**The MS4043 Cylinder Guard offers a three-way defense against this problem:**

1. The outer shield ring is fully beveled to offer poor purchase for either prying or twisting.
2. The ring is hardened steel so that the combination of shape and hardness make it virtually impossible to grip, even with sharpened tools.
3. In the event that a prying tool such as a cold chisel is driven into the stile behind the shield ring, the would-be burglar is obliged to pull a heavy steel plate through a round hole in the 1/8" metal door stile. This degree of leverage is far beyond that available with most hand tools.



### Features

#### Security Ring

Made of hardened-steel. Free-swiveling when properly installed.

#### Retainer Ring

Hardened-steel, plated for corrosion resistance. Permits security ring to swivel.

#### Trim Finish

Powder coat 119 to match 335 Black anodized, 121 to match 313 Dark bronze anodized, 130 to match 628 Clear anodized

#### Standard Package

Individually packaged with spacers for flush fitting in thin stile walls. Cylinders available separately.

#### Shipping Weight

1/8 lb. [0.06 kg]

### Options

- MS4043 Cylinder Guard fits a standard 1/8" stile wall. For 1/4" thick stile walls, specify MS4043-01.

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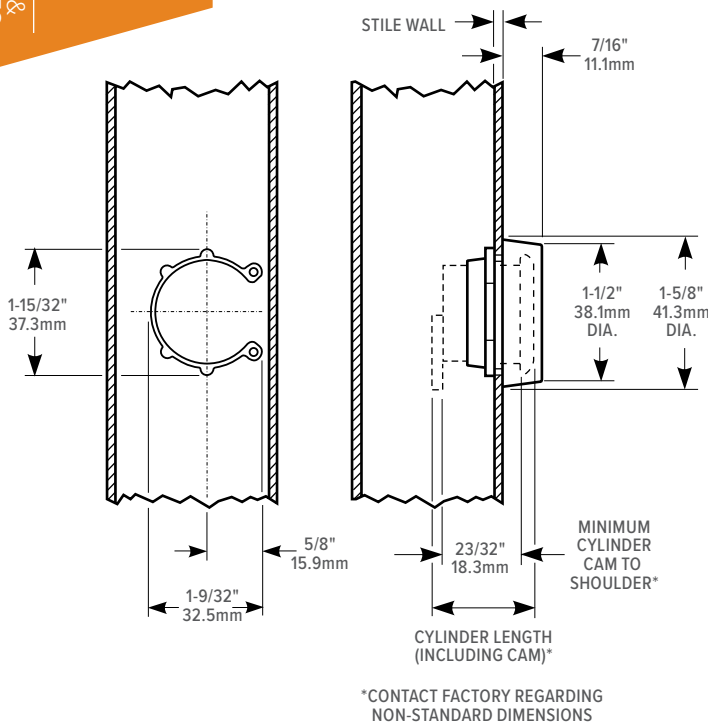
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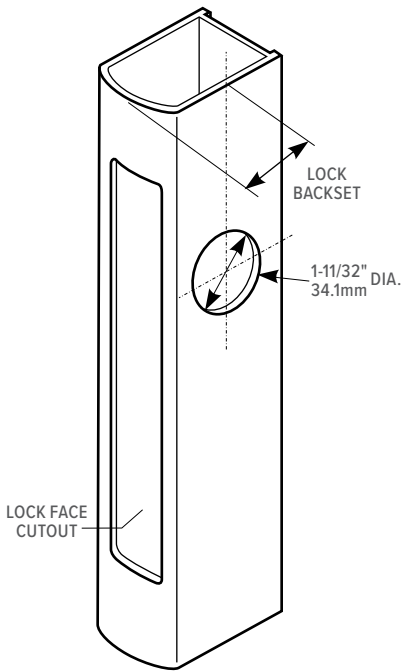
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All measurements are approximate and are provided for informational purposes only. Refer to the product Installation Instructions.

## Dimensions

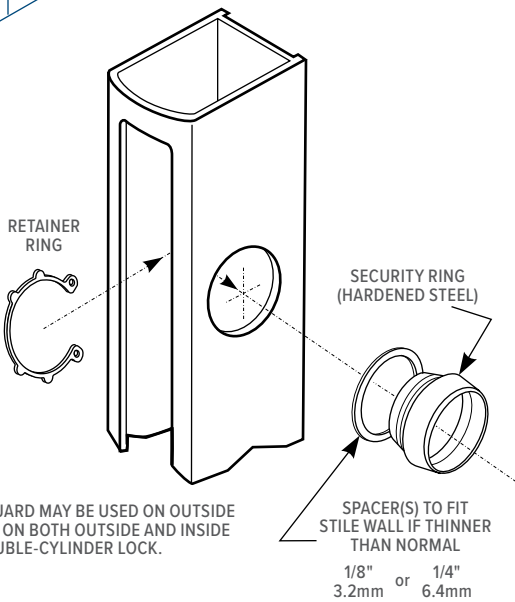


## Stile Preparation



## Installation

FACE "OPEN" SIDE OF RETAINER TOWARD MINIMUM CLEARANCE DIRECTION (TOWARD NOSE OF DOOR ON 7/8" OR 31/32" BACKSET LOCKS, AWAY ON 1-1/8" BACKSET).



NOTE: GUARD MAY BE USED ON OUTSIDE ONLY OR ON BOTH OUTSIDE AND INSIDE OF A DOUBLE-CYLINDER LOCK.

## How to Order & Compatible Products

MS4043 Cylinder Guard Specify quantity and the following information. Order related products separately.

MODEL	STILE WALL & CYLINDER		FINISH
MS4043	-01		-130
	Stile Wall	Cylinder	119 To match 335 Black Anodized
	00 1/8"	5 or 6 pin	121 To match 313 Dark Bronze Anodized
	01 1/4"	5 or 6 pin	130 To match 628 Clear Anodized
	02 1/8" (3.2mm)	1-5/16" to 1-7/16" long	

### COMPATIBLE

DEADLOCKS	DEADLATCHES	FLUSHBOLTS	EXIT DEVICES	TRIM
1830, MS1837, MS1850S, MS1850S-050, MS1850SN, MS1850SN-050, MS1861, 1875, MS+1890, MS1950, MS1950-050, 2190, 2290 Series Deadlocks	4300 Electrified Deadlatches, 4510, 4530, 4900, 4920AN Series Deadlatches	1870, 1870HM Series Flushlocks	8300, 8400 Mortise Exit Devices	

# B1921 | B1923

## Reinforcing Pivots

B1921, B1923 Reinforcing Pivots provide an economical way to transfer load from hinges of sagging hollow metal or wood doors.

### Function

This full-surface reinforcing pivot adds years of life to openings where the hinges or hinge reinforcements have failed. Reinforcing pivots take the load off the top hinge and transfer it to screws that are in shear so they will not pull off. The quick and economical way to solve door sag problems.



## Features

### Type

Full surface reinforcing pivots for flush doors.

### Finish

Zinc plating over steel.

### Materials

Heavy duty 3/16" [4.8 mm] cold-rolled steel.

### Cycle Testing

1,500,000 cycles

### Capacity

Supports weights up to 300 lbs [136.08 kg]

### Hole Pattern

Symmetrically located. Non-handed.

### Hinge Size

**B1921:** designed with 1/2" [12.7 mm] offset to match the pivot point of a 4" [101.6 mm] wide butt hinge.

**B1923:** designed with a 3/4" [19.1mm] offset to match the pivot point of a 4-1/2" [114.3 mm] wide butt hinge.

### Standard Package

Comes complete with all necessary fasteners.  
Optional tamper-proof screw available.

### Shipping Weight

1-1/2 lb [0.68 kg]

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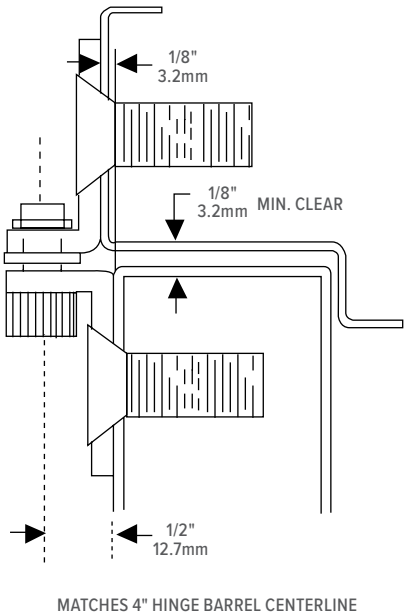
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## Dimensions

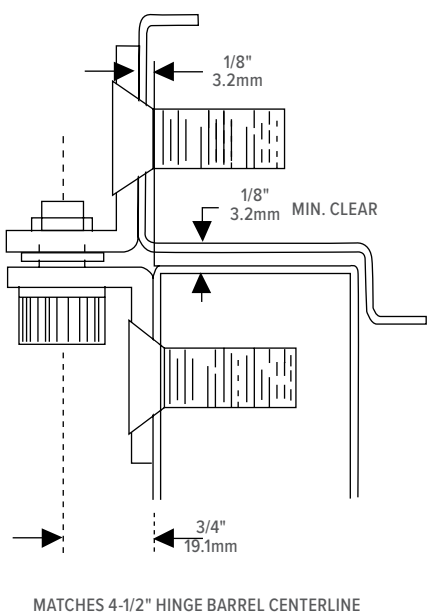
### B1921

Side View



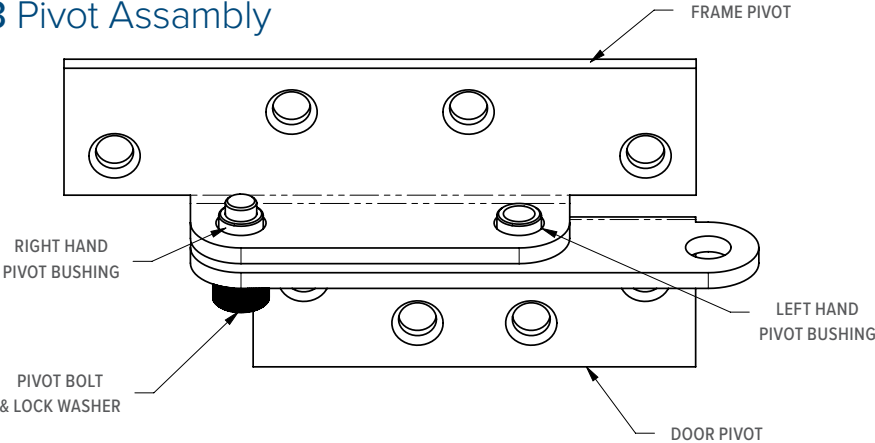
### B1923

Side View



## Installation

### B1921 | B1923 Pivot Assambly



## How to Order & Related Products

**B1921 | B1923 Reinforcing Pivots:** Specify quantity and the following information. Order related products separately.

MODEL	HINGE SIZE
B192	1
	1 4"
	3 4-1/2"

### RELATED

When purchasing this product, please consider the following related products, available separately:

ACCESSORIES
Tamper proof screws
B-133 Large Oilite bronze bushing
P-133 Large socket head pin and washer available separately.



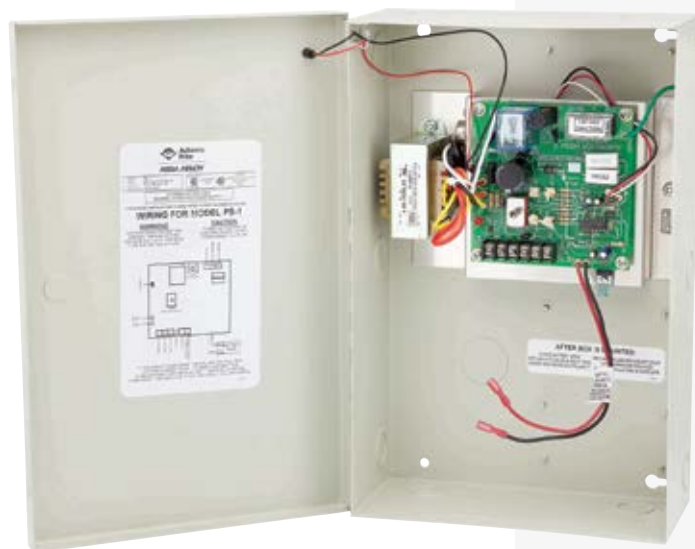
# PS-1

## Power Supply

One Amp linear power supply with integrated battery backup circuitry for electric strikes, maglocks, and other access control devices.

### Function

Provides filtered and regulated voltage output to power electric strikes, magnetic locks, or other access control devices. Output is selectable in the field for 12 or 24 VDC. Charging circuit is built in for battery backup power (batteries not included) with 12 or 24 VDC operation. LED on circuit board indicates power input.



### Certifications

UL 294 listed

UL listed

### Features

#### Housing

Hinged, steel cabinet measures 12-1/8" x 4" x 12-1/8" [308 mm x 101.6 mm x 308 mm]. Beige, baked enamel finish with knockouts for conduit and key lock. Sized to accommodate two sealed, lead acid batteries (4AH, not included).

#### Fire Alarm

UL listed low current fire alarm disconnect requires only a minimum size fire alarm relay and wire gauge.

#### Shipping weight

12 lbs [5.4 kg].

### Electrical

#### Input Power

110 VAC, 60 Hz, 0.5A

#### Battery Fuse

2A, 5 x 20MM

#### Primary Fuse

800 mA, 5 x 20MM

#### Output Voltage

Field-selectable 1 Amp @ 12VDC or 24VDC. (Maximum 13.8 VDC/27.6 VDC)

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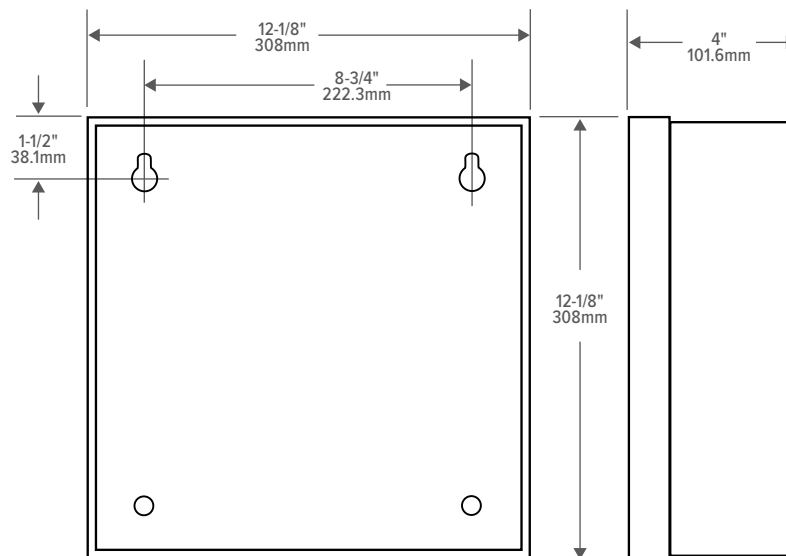
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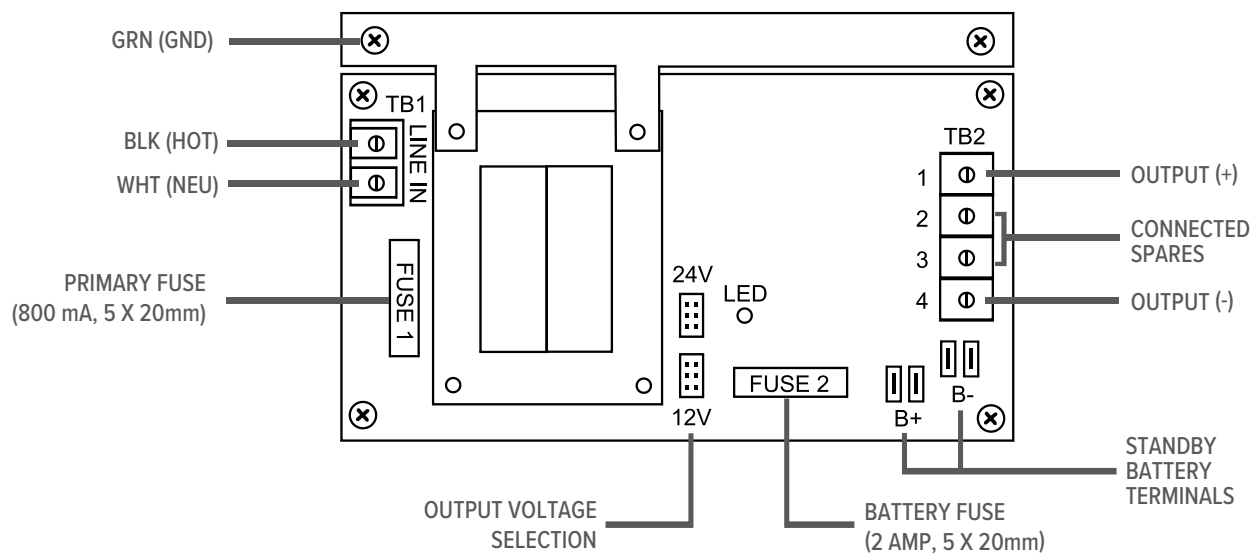
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 **Adams  
Rite**  
**ASSA ABLOY**

## Dimensions



## Layout & Wiring



## How to Order, Related & Compatible Products

PS-1 Power Supply: Specify quantity and the following information. Order compatible products separately.

MODEL	POWER SUPPLY
PS	-1
1 Standard Power Supply	

**RELATED** When purchasing this product, please consider the following available separately:

ACCESSORIES	POWER
Batteries not included	4612 Power Transfer Device

### COMPATIBLE

DEADLATCHES	ELECTRIC STRIKES	EXIT DEVICES	TRIM
4300 Electrified Deadlatch	7100/7101, 7110/7111, 7130/7131, 7140, 7160, 7170 Electric Strikes, 7240, 7270 Fire-Rated Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440, 74R1, 74R2 Electric Strikes	8700, 8800 Series electrified rim exit devices with EL option	3080E Series Entry Trim, 3090P, 3090C Series Keyless Entry



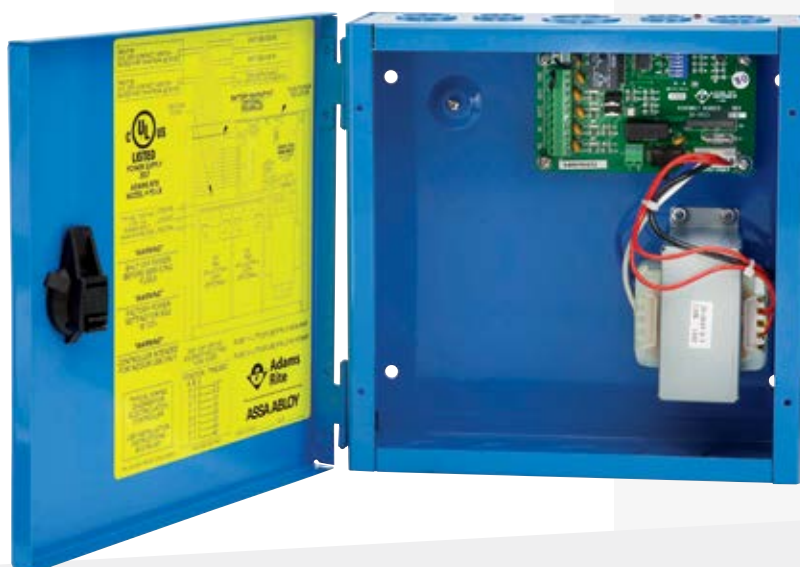
# PS-LR

## Power Supply

Linear power supply with optional battery backup for 3000 and 8000 Series vertical rod and mortise type exit devices with electric latch retraction (LR) option.

### Function

This Adams Rite power supply is strongly recommended for the electric latch retraction (LR) option on vertical rod and mortise types of exit devices. It operates at 28 VDC to power up to two LR exit devices in sequential or independent modes. The PS-LR is also equipped with a fire alarm disconnect interface circuitry.



### Certifications

CSA-C22.2 No. 223 listed

UL listed

### Features

#### Housing

Hinged, steel cabinet measures 10" x 10-3/8" x 4-1/8" [254 mm x 263.5 mm x 104.8 mm]. Blue, baked enamel finish, with knockouts for conduit connections. Sized to accommodate two sealed, lead acid batteries (7AH, not included).

#### Operating Modes

The PS-LR is designed to power up to two 3000 LR or 8000 LR exit devices in the following operating modes:

- Near Simultaneous Mode – A single input switch (dry contact) operates two devices with less than one second delay. Ideal for double-door applications.
- Independent Mode – Each LR exit device is controlled by its own input switch.

#### Shipping Weight

10 lbs [4.5 kg].

### Electrical

#### Input Power

115 VAC or 230 VAC, 0.7A/0.4A

#### Primary Fuse

The PS-LR has two user-serviceable fuses:  
F1: Transformer output: 4.0A/250V 5x20MM;  
F2: Transformer input: 3.15A/250V 5x20MM

#### Output Voltage

16 Amp @ 28VDC

### Options

Battery Backup Kit (BBK-LR) available separately to add battery backup capability to the PS-LR. The enclosure is sized to accommodate two 12 volt – 7AH sealed, lead acid batteries (not included).

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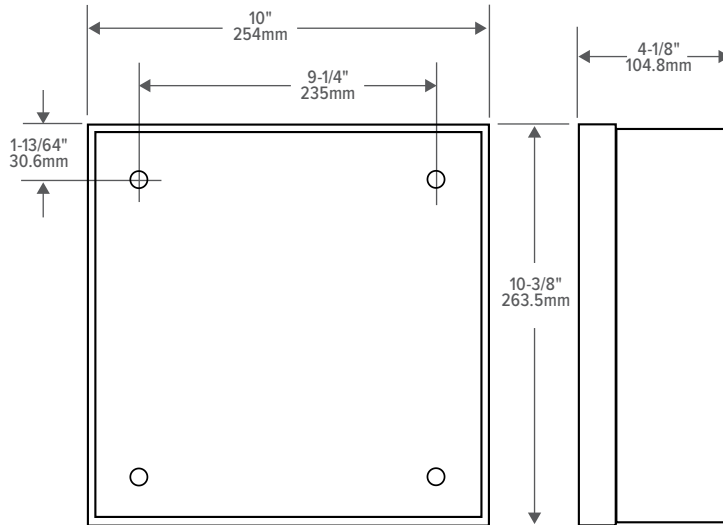
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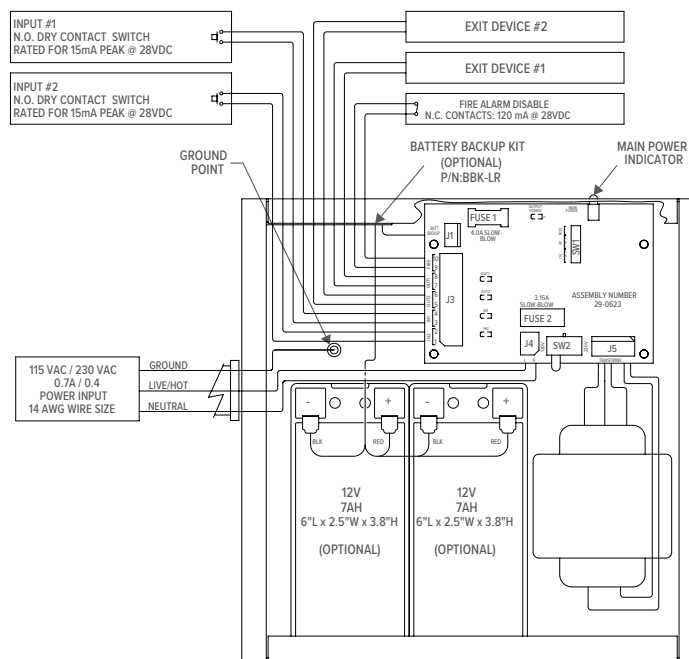
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Adams  
Rite  
ASSA ABLOY

## Dimensions



## Layout & Wiring



## How to Order, Related & Compatible Products

**PS-LR Power Supply:** Specify quantity and the following information. Order compatible products separately.

MODEL	POWER SUPPLY
PS	-LR
LR Power Supply for exit devices w/ LR option	

### RELATED

When purchasing this product, please consider the following available separately:

ACCESSORIES	POWER
BBK-LR Battery Backup Kit	4612 Power Transfer Device

### COMPATIBLE

EXIT DEVICES
8000LR Series electrified exit devices with LR latch retraction

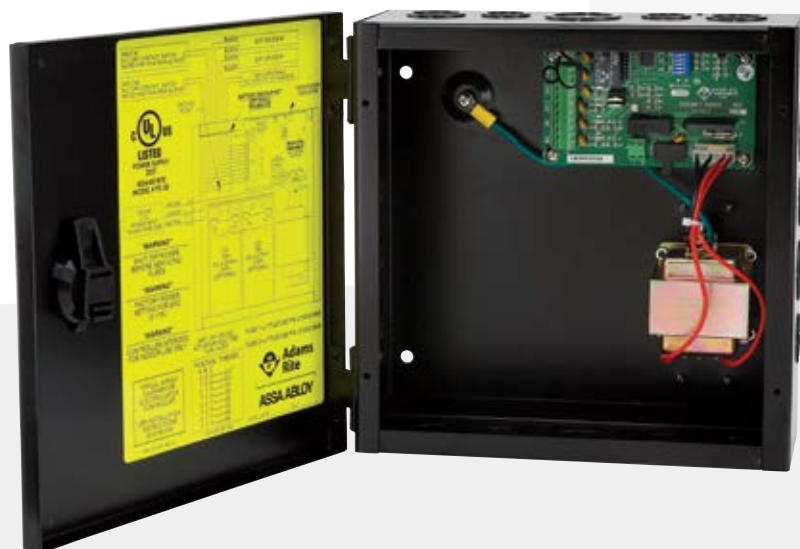
# PS-SE

## Power Supply

Power supply with optional battery backup for all 3000 and 8000 Series Exit Devices with Silent Electrification Motorized Latch Retraction (SE) option.

### Function

This power supply is designed for the Silent Electrification Motorized Latch Retraction (SE) option on Adams Rite exit devices. It operates at 24 VDC to power up to two SE exit devices in sequential or independent modes. The PS-SE is also equipped with a fire alarm disconnect interface circuitry.



### Certifications

UL listed

### Features

#### Housing

Hinged, steel cabinet measures 10" x 10-3/8" x 4-1/8" [254 mm x 263.5 mm x 104.8 mm]. Black, baked enamel finish, with knockouts for conduit connections. Sized to accommodate two sealed, lead acid batteries (7AH, not included).

#### Operating Modes

The PS-SE is designed to power up to two 3000 SE or 8000 SE exit devices in the following operating modes:

- Near Simultaneous Mode – A single input switch (dry contact) operates two devices with less than one second delay. Ideal for double-door applications.
- Independent Mode – Each SE exit device is controlled by its own input switch.

#### Shipping Weight

9 lbs [4.1 kg].

### Electrical

#### Input Power

115 VAC, 0.7A

#### Primary Fuse

The PS-SE has two user-serviceable fuses:

F1: Transformer output: 2A/250V 5x20MM

F2: Transformer input: 2A/250V 5x20MM

#### Open Hold Times

The PS-SE has two open hold timers. Hold open time settings are adjustable from 2-60 seconds.

#### Output Voltage

2 Amp @ 24VDC

### Options

Battery Backup Kit (BBK-SE) available separately to add battery backup capability to the PS-SE. The enclosure is sized to accommodate two 12 volt – 7AH sealed, lead acid batteries (not included).

#### Product Note

Adams Rite recommends that for optimal performance all exit devices with the SE option are installed and powered using PS-SE power supplies. Failure to do so may cause permanent damage to the exit device.

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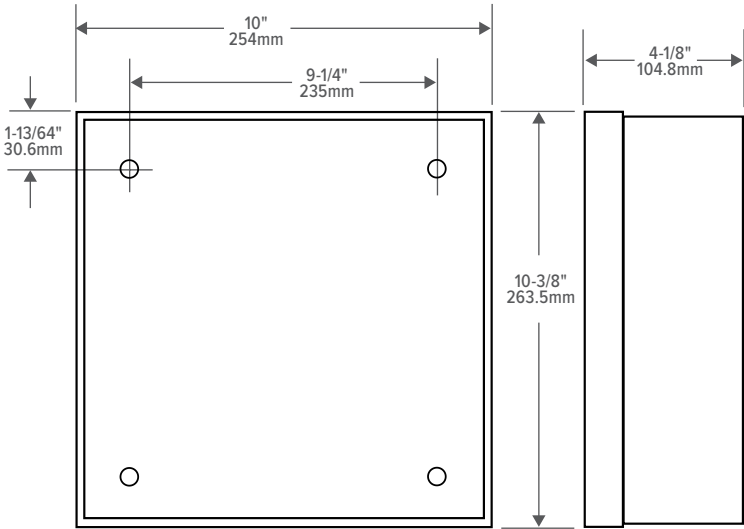
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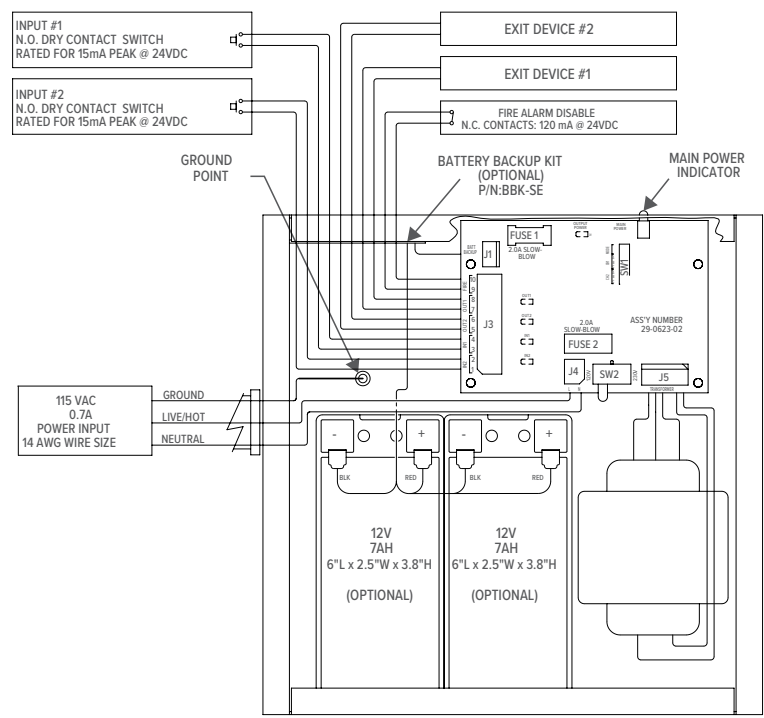
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**ASSA ABLOY**

# Dimensions



## Layout & Wiring



## How to Order, Related & Compatible Products

PS-SE Power Supply: Specify quantity and the following information. Order compatible products separately.

MODEL	POWER SUPPLY
PS	-SE
	SE Power Supply for exit devices w/ SE option

**RELATED** When purchasing this product, please consider the following available separately:

ACCESSORIES	POWER
BBK-SE Battery Backup Kit	4612 Power Transfer Device

### COMPATIBLE

EXIT DEVICES
8000SE Series electrified exit devices with SE Silent Electrification motorized latch retraction

# 4612

## Power Transfer Device

The 4612 Power Transfer Device channels electrical wiring from the door frame into the door itself. Designed for use with locks, exit devices, and more on doors hung with butt-type hinges.

### Function

Provides a secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself, for powering electric strikes on the inactive leaf of a pair of doors, locks, exit devices, etc. Suitable for any door hung with butt-type hinges, including continuous or pivots offset 3/4" [19.1 mm] or less. Not compatible with center-pivot doors.



## Certifications

UL listed

## Features

### Housing

Stamped steel, approximately 1/16" [1.6 mm] thick. Short (105° swing) version shown is 11-1/2" [281.5 mm] long. 180° version is 20-5/21" [514mm] long. Chrome finish.

### Case Knife Guard

Particularly for out-swinging doors, a steel barrier fence offers extra protection against attack on the conduit by knives, shims, or other tools. Completely hidden when door is closed.

### Standard Package

Individually boxed with fasteners as required for each application type: aluminum, hollow metal, or wood.

### Shipping Weight

1 lb. [0.45kg]

## Electrical

### Conduit

Spring steel helix has internal diameter of approximate 5/16". This provides ample room for multiple wires of the low voltage type used with most electrical hardware.

## Options

- Available for application in aluminum, hollow metal, or wood door and frames.
- Standard (short) version suits doors that swing up to 105°. A longer version is available for doors that open 180°.
- Swing Clear option also available.

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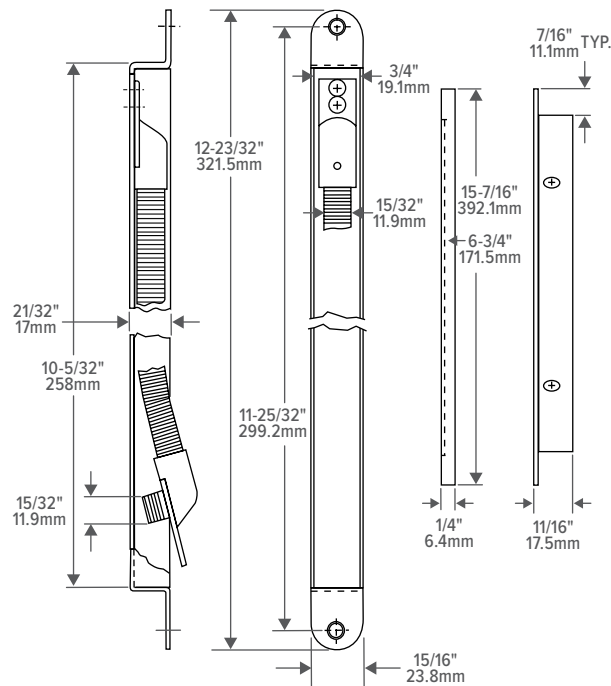
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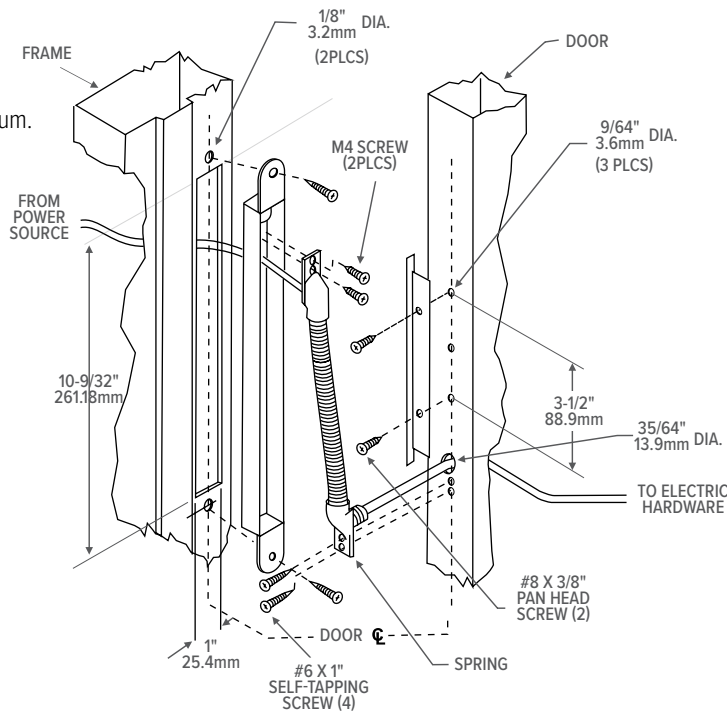
## Dimensions



## Installation

### Door and Frame Prep — 105° Swing

1. For wood frame, the rectangular cutout is 2" deep minimum.
2. 4612 Power Transfer Device is designed to protect the wire. Care should also be taken when inserting wires through this device.
3. Only stranded wires to be employed.
4. Size and number of wires must comply with the National Electric Code, NFPA, and local authorities having jurisdiction. Wire size shall be at least 22 gauge.
5. This device is intended for low voltage use only (30 VAC, 42.5 VDC, 10 W max.).
6. Wire should be labeled, appliance wiring material with minimum 1/32" thick insulation.



## How to Order & Compatible Products

**4612 Power Transfer Device:** Specify quantity and the following information. Order compatible products separately.

MODEL	ACCESSORY
4612	-1
	1 105° swing
	2 180° swing
	1-SC Swing clear, 90°

### COMPATIBLE

DEADLATCHES	ELECTRIC STRIKES	EXIT DEVICES	TRIM
4300 Electrified Deadlatch	7100/7101, 7110/7111, 7130/7131, 7140, 7160, 7170 Electric Strikes, 7240, 7270 Fire-Rated Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440, 74R1, 74R2 Electric Strikes	All 3000, 8000 Series electrified exit devices	3080E Series Entry Trim, 3090P, 3090C Series Keyless Entry

# Accessories For Power Supplies

## 4603 Rectifier

The 4603 Rectifier converts low voltage AC current to DC of same voltage. Installs in low voltage line between transformer and strike. Full wave bridge type. Rated 2 Amps (200 PIV).



4605 / 4606 Only



## 4605 Transformer

The 4605 Transformer converts 120 VAC to 12/24 VAC. Rated 40 Volt-amp output assures sufficient power for electric strike.

### Certifications

UL listed



## 4606 Plug-In Transformer

The 4606 Plug-In Transformer converts 120 VAC current to 24 VAC. Plugs into standard wall outlet.

### Certifications

UL listed



## 29-0218 Piezo Horn

Provides for audible indication when a DC electric strike is energized. Compatible with 12, 16, or 24 VDC electric strikes.



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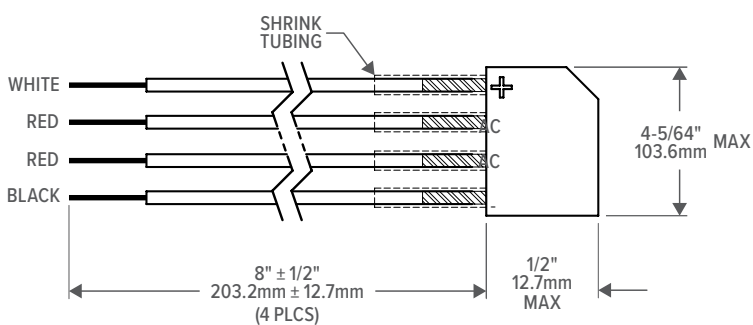
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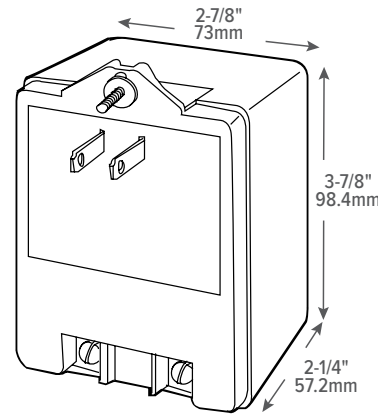


# Dimensions

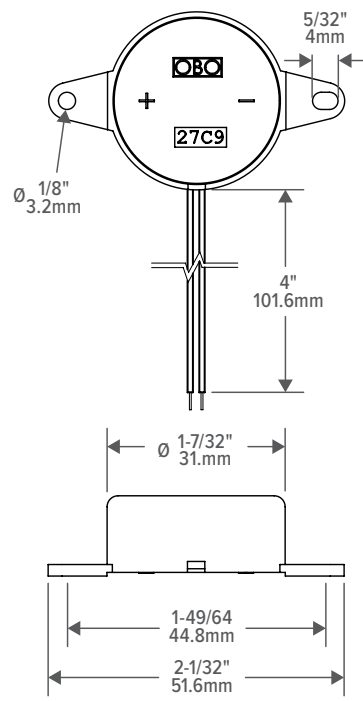
## 4603 Rectifier



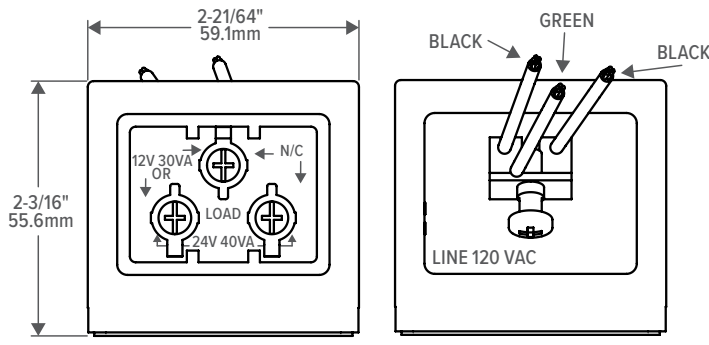
## 4606 Plug-In Transformer



## 29-0218 Piezo Horn



## 4605 Transformer



# How to Order, Related & Compatible Products

**Accessories:** Specify quantity and the following information. Order compatible products separately.

MODEL	ACCESSORY
460	3
	3 Rectifier
	5 Transformer
	6 Transformer (Plug-In)

**RELATED** When purchasing this product, please consider the following available separately:

POWER
PS-1, PS-SE, PS-LR Power Supply, 4612 Power Transfer Device

## COMPATIBLE

DEADLOCKS	DEADLATCHES	ELECTRIC STRIKES	TRIM	EXIT DEVICES
2190 Electrified Interconnected Deadbolt/Deadlatch	4300 Electrified Deadlatch	7100/7101, 7110/7111, 7130/7131, 7140, 7160, 7170 Electric Strikes, 7240, 7270 Fire-Rated Electric Strikes, 7400/7401, 7410/7411, 7430/7431, 7440, 74R1, 74R2 Electric Strikes	3080E Series Entry Trim	8700, 8800 electrified exit devices with EL options

# Icons Glossary

Definitions of commonly used terms plus classifications and descriptions of the icons found throughout this catalog.



## Aluminum

This product suitable for aluminum doors.



## Roll-Up Door

This product suitable for roll-up doors.



## Electrified Product

This is an electrified product.



## Glass

This product suitable for full glass doors.



## Fire-Rated

Products with a fire rating have been evaluated and listed to UL10C, "Positive Pressure Fire Tests with Door Assemblies". The hourly rating qualification is also noted.



## Electrified Option

This product is available with electrification option.



## Hollow Metal

This product suitable for hollow metal doors.



## Grade 1

This product tested and certified to applicable ANSI/BHMA Grade 1 standard.



## Pullman

Rim exit latch style that swings back at an angle to fully retract into the device as the pushbar is depressed.



## Wood

This product suitable for wood doors.



## Burglary Listed

Products with a UL 1034 listing are compliant as burglary resistant electric locking mechanisms.



## Interlock

A uniquely-shaped rim exit bolt design that interlocks the door to the frame for enhanced strength and durability.



## Sliding Door

This product suitable for sliding doors.



## Preload

This product capable of opening under load as defined by applicable ANSI/BHMA standards.



## Swinging Door

This product suitable for swinging doors.

# Comprehensive Training Opportunities

ASSA ABLOY offers comprehensive training classes available to anyone wishing to learn about Doors & Hardware, Access Control, Key Systems and much more. Courses and lessons can be taken online or in-person at our training centers.

We offer curriculum reviewing everything from basic doors and hardware knowledge to complex IP Enabled and Access Control solutions. Opportunities for applying hands-on training with classroom instruction provide students with real world scenarios. Online courses are convenient for the busy professional.

Find a workshop to meet your needs – the University is open for self enrollment now. Registration for many of the online training modules is free.

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Customers purchasing from Door Security Solutions Canada can find Canadian terms and conditions at [www.assaabloydss.ca/terms](http://www.assaabloydss.ca/terms).

## Limited Warranty

Products sold under the Adams Rite brand in the United States of America are warranted free from defects in workmanship and materials under normal use and service.

This warranty does not cover defects or damage arising from improper installation, lack of or improper maintenance, improper storage, shipping and handling, corrosion, erosion, ordinary wear and tear,

misuse, abuse, accident, unauthorized service, or use with unauthorized non-Adams Rite products or parts.

This warranty is void if any modification is made to the product, regardless of whether the modification causes or contributes to the alleged defect. All modifications are made at the risk of the party making the modification.

Should any defect of manufacture (in material or workmanship) occur in its products, Adams Rite, upon prompt notification and proof to its satisfaction that the product was defective in manufacture for the use intended by Adams Rite, will at its option, exchange the product, repair the product, or refund the price charged by Adams Rite, FOB factory within the stated time frame listed below.

- All mechanical products for five (5) years from date of manufacture
- Ultraline® 7400 Electric Strikes for five (5) years from date of manufacture
- All electrical products for three (3) years from date of manufacture, with the exception of the exit devices with the SE option
- Exit devices with the SE option for one (1) year from date of manufacture. Adams Rite recommends that for optimal performance all exit devices with the SE option are installed and powered using PS-SE power supplies. Installing SE exit devices with PS-SE power supplies extends the warranty to five (5) years from date of manufacture.

## General RMA Procedure

Product repair or replacement, or associated charges, will not be accepted under this warranty unless prior authorization from Adams Rite has been given. Upon receipt of products returned for repair or replacement, Adams Rite will determine whether products qualify for repair or replacement under this warranty. Adams Rite has no liability to pay any costs of repair performed by anyone other than qualified personnel authorized by Adams Rite prior to the work being done.

Written notice of a product or component part believed to be defective as covered by this warranty should be sent to Adams Rite, 10027 S. 51st Street, Suite 102, Phoenix, Arizona 85044 or [customer.care@assaabloy.com](mailto:customer.care@assaabloy.com) and should include your name and address, an identification of the product or component part and a brief description of the defect. Notice of a product or component part believed to be defective as covered by this warranty may also be accepted over the telephone by Adams Rite, 800.872.3267.

Upon receipt of such notice, if the customer has an account with Adams Rite or a valid credit card,

an advance replacement product may be ordered whereby Adams Rite will ship a replacement product to the customer free of charge. If Adams Rite does not receive the original defective product from the customer within 60 days, Adams Rite will charge the customer's account or credit card for the price of the advanced replacement product plus freight costs. Upon inspection of the returned product by Adams Rite, a decision will be made whether or not to charge the customer for the advanced replacement Adams Rite product. This decision will be made solely by Adams Rite in accordance with the provisions of these Terms. Obsolete products will not be accepted for return. Return Material Authorizations (RMAs) will be closed if the goods are not received within 60 days of issuance.

If Adams Rite receives original defective product from the customer within 60 days of RMA issuance, and if the customer is requesting credit for the defective material, the customer must reference the valid Adams Rite Purchase Order number upon which the product was originally ordered. If the original Purchase Order number is not available, at Adams Rite's option a credit may

be issued at the customer's current cost. This decision will be made solely by Adams Rite in accordance with the provisions of these Terms.

Transportation charges and insurance on all returned materials must be prepaid by the purchaser when merchandise is ordered in error. On goods returned for customer convenience, when the purchaser returns materials in compliance with these Terms which are accepted by Adams Rite, the purchaser may be issued a credit for 65% of the purchase price, with 35% charged by Adams Rite for handling and reprocessing. All refunds will be in the form of a credit.

Scrap in field may be allowed on select products for customers who have prior agreement with Adams Rite. In this case the original defective product will not have to be returned to Adams Rite. Items allowed under this program are subject to the discretion of Adams Rite and may change at any time. Only authorized product is allowed to be scrapped in the field. Unauthorized product scrapped in the field will be considered 'not returned' and the customer will be charged for the replacement or credit will be denied.

## Cancellation

As an industry leader, Adams Rite is committed to maintaining the highest standard of quality and ensuring strict compliance to industry codes. Adams Rite's proud history of customer service and manufacturing agility allow quick response times to customer's changing needs, which may include special orders or product modifications. Please be advised that all product modifications require special authorization to ensure the order fully meets customer's expectations. Customers are asked to allow for an extended lead time on all special orders. Please note that at Adams Rite's option, product modifications and other special orders cannot be changed, cancelled, or returned once a ship date has been provided on an order acknowledgement by Adams Rite.

Adams Rite prides itself on introducing new, industry-relevant, feature-rich products. Since new solutions will surpass the capabilities of older product lines, historical products may be subsequently discontinued. Every effort will be made to announce new product introductions as well as product discontinuations in a manner that allows customers advanced notice of these events. Once a product line is discontinued orders will be fulfilled in order of receipt, although Adams Rite cannot guarantee all orders can be filled. Repair services and spare parts for discontinued product lines will be available for some reasonable time period. Adams Rite reserves the right to replace discontinued product with an equivalent product as deemed by Adams Rite.

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## Canada

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Customer Support in Canada:

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